

ATTACHMENT 3

EgyptAir Flight 990 FDR Tabular Data Sets

Egypt Air Flight 990

Boeing 767-300ER, SU-GAP, October 31, 1999
Finalized Data - Summary Data, DCA00MA006

Vehicle Recorder Division RE-40 - NTSB

Date Printed: April 24, 2000

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 Finalized - Summary Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:38:00.98	25408	320.0	3.69	-10.90 -10.90	-2.46	81.56	eng	71.46	70.88	Oper	0.35	-0.35	1.53	1.54	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52	norm		no	no	0.953 0.948 0.950 0.950 0.957 0.960 0.953 0.953	-0.009 -0.010 -0.008 -0.005	0.063 0.069 0.066 0.064
01:38:01.98	25440	320.0	3.69	-10.90 -10.90	-2.64	81.56	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.957 0.937 0.960 0.962 0.953 0.957 0.960	-0.008 -0.014 -0.005 -0.008	0.064 0.062 0.062 0.067
01:38:02.98	25440	320.0	3.69	-10.90 -10.90	-2.46	81.39	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.955 0.955 0.957 0.957 0.957 0.944 0.976	-0.005 -0.006 -0.005 -0.007	0.064 0.063 0.063 0.063
01:38:03.98	25472	320.0	3.69	-10.90 -10.90	-2.46	81.39	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.944 0.964 0.916 0.962 0.953 0.955 0.955 0.962	-0.008 -0.008 -0.010 -0.006	0.068 0.066 0.064 0.062
01:38:04.98	25504	320.0	3.52	-10.90 -10.90	-2.46	81.21	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52	norm		no	no	0.951 0.960 0.960 0.964 0.957 0.973 0.955 0.960	-0.007 -0.011 -0.003 -0.006	0.064 0.067 0.067 0.065
01:38:05.98	25504	320.0	3.52	-10.90 -10.55	-2.29	81.21	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52			no	no	0.964 0.953 0.957 0.960 0.962 0.964 0.962 0.964	-0.007 -0.007 -0.006 -0.005	0.065 0.062 0.064 0.067
01:38:06.98	25536	320.0	3.52	-10.55 -10.90	-2.11	81.21	eng	71.50	70.88	Oper	0.35	-0.35	1.53	1.54	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52		norm	no	no	0.978 0.964 0.962 0.960 0.973 0.969 0.971 0.973	-0.008 -0.010 -0.008 -0.011	0.063 0.062 0.064 0.064
01:38:07.98	25568	320.0	3.52	-10.55 -10.55	-1.93	81.04	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52			no	no	0.971 0.964 0.969 0.960 0.971 0.964 0.989 0.964	-0.006 -0.010 -0.006 -0.005	0.065 0.065 0.066 0.064
01:38:08.98	25568	320.0	3.52	-10.55 -10.55	-1.76	81.04	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52	norm		no	no	0.969 0.976 0.964 0.964 0.971 0.971 0.973 0.971	0.000 -0.007 -0.006 -0.009	0.065 0.063 0.063 0.066
01:38:09.98	25600	320.0	3.52	-10.55 -10.55	-1.41	81.04	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52			no	no	0.969 0.964 0.971 0.973 0.971 0.992 0.976 0.969	-0.005 -0.011 -0.005 -0.011	0.068 0.069 0.067 0.064

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:38:10.98	25632	320.0	3.52	-10.55 -10.55	-1.23	80.86	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52		norm	no	no	0.969 0.964 0.969 0.973 0.960 0.973 0.989 0.976	-0.008 -0.007 -0.003 -0.006	0.067 0.067 0.068 0.063
01:38:11.98	25632	320.0	3.52	-10.55 -10.55	-1.23	80.86	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.976 0.971 0.969 0.973 0.973 0.989 0.969 0.976	-0.006 -0.005 -0.003 -0.005	0.065 0.065 0.069 0.065
01:38:12.98	25664	320.0	3.52	-10.55 -10.55	-0.88	80.86	eng	71.46	70.84	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52	norm		no	no	0.978 0.978 0.976 0.971 0.973 0.980 0.982 0.971	-0.010 -0.011 -0.010 -0.006	0.065 0.065 0.064 0.066
01:38:13.98	25664	320.0	3.52	-10.55 -10.55	-0.88	80.86	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.980 0.976 0.978 0.957 0.973 0.971 0.962 0.976	-0.006 -0.014 -0.009 -0.009	0.068 0.066 0.063 0.063
01:38:14.98	25696	320.0	3.52	-10.55 -10.55	-0.88	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.976 0.971 0.978 0.987 0.976 0.978 0.976 0.978	-0.003 -0.004 -0.008 -0.013	0.065 0.065 0.067 0.064
01:38:15.98	25728	320.0	3.52	-10.55 -10.55	-0.70	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.971 0.978 0.976 0.971 0.950 0.976 0.971 1.001	-0.008 -0.005 -0.011 -0.014	0.067 0.066 0.064 0.065
01:38:16.98	25728	320.0	3.52	-10.55 -10.55	-0.70	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52	norm		no	no	0.980 0.976 0.980 0.985 0.976 0.978 0.980 0.978	-0.010 -0.007 -0.011 -0.006	0.064 0.064 0.066 0.067
01:38:17.98	25760	320.0	3.69	-10.55 -10.55	-0.53	80.68	eng	71.46	70.88	Oper	0.35	-0.18	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.971 0.980 0.971 0.976 0.980 0.989 0.985 0.982	-0.009 -0.006 -0.008 -0.012	0.065 0.068 0.065 0.064
01:38:18.98	25792	320.0	3.69	-10.55 -10.55	-0.53	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.962 0.978 0.982 0.980 0.980 0.971 0.976 0.973	-0.006 -0.010 -0.009 -0.007	0.065 0.064 0.065 0.068
01:38:19.98	25792	319.0	3.69	-10.55 -10.55	-0.53	80.68	eng	71.46	70.88	Oper	0.35	-0.18	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.978 0.978 0.982 0.976 0.971 0.976 0.978 0.976	-0.007 -0.006 -0.012 -0.005	0.065 0.066 0.065 0.065

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01:38:20.98	25824	319.0	3.69	-10.55 -10.55	-0.53	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52	norm		no	no	0.973 0.976 0.973 0.989 0.980 0.973 0.976 0.980	-0.006 -0.013 -0.010 -0.011	0.064 0.064 0.064 0.065
01:38:21.98	25856	319.0	3.69	-10.55 -10.55	-0.53	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.971 0.982 0.978 0.964 0.971 0.976 0.969 0.976	-0.008 -0.004 -0.009 -0.012	0.064 0.064 0.066 0.064
01:38:22.98	25888	319.0	3.69	-10.90 -10.55	-0.53	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52		norm	no	no	0.969 0.978 0.971 0.969 0.973 0.980 0.994 0.973	-0.009 -0.004 -0.007 -0.010	0.065 0.063 0.065 0.065
01:38:23.98	25888	319.0	3.69	-10.55 -10.55	-0.35	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52			no	no	0.966 0.964 0.969 0.980 0.980 0.971 0.969 0.971	-0.011 -0.010 -0.004 -0.003	0.063 0.065 0.063 0.064
01:38:24.98	25920	319.0	3.69	-10.55 -10.55	-0.35	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52	norm		no	no	0.973 0.953 0.971 0.971 0.969 0.964 0.973 0.969	0.000 -0.011 -0.009 -0.007	0.066 0.066 0.066 0.066
01:38:25.98	25952	319.0	3.69	-10.55 -10.55	-0.35	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52			no	no	0.971 0.969 0.971 0.966 0.969 0.969 0.960 0.960	-0.008 -0.007 -0.008 -0.012	0.064 0.063 0.064 0.067
01:38:26.98	25952	319.0	3.69	-10.55 -10.55	-0.18	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.55	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.960 0.966 0.960 0.982 0.971 0.971 0.966 0.969	-0.008 -0.007 -0.004 -0.004	0.064 0.064 0.064 0.066
01:38:27.98	25984	319.0	3.69	-10.90 -10.55	-0.18	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.946 0.966 0.962 0.962 0.964 0.966 0.964 0.966	-0.009 -0.013 -0.011 -0.007	0.065 0.065 0.065 0.067
01:38:28.98	26016	319.0	3.69	-10.55 -10.90	-0.18	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52	norm		no	no	0.980 0.966 0.966 0.969 0.964 0.964 0.966 0.978	-0.007 0.000 -0.009 -0.007	0.064 0.064 0.065 0.065
01:38:29.98	26016	319.0	3.52	-10.90 -10.90	-0.18	80.68	eng	71.46	70.84	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.980 0.971 0.962 0.957 0.969 0.960 0.960 0.955	-0.011 -0.012 -0.004 -0.007	0.063 0.064 0.064 0.065

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01:38:30.98	26048	319.0	3.52	-10.55 -10.90	-0.18	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.55	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.960 0.962 0.962 0.964 0.957 0.969 0.957 0.985	-0.012 -0.009 -0.006 -0.004	0.062 0.062 0.063 0.066
01:38:31.98	26080	319.0	3.52	-10.90 -10.55	0.00	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.55	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.957 0.980 0.966 0.964 0.960 0.969 0.973 0.969	-0.007 -0.010 -0.007 -0.014	0.063 0.062 0.065 0.064
01:38:32.98	26080	319.0	3.52	-10.55 -10.90	0.00	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.55	1.54	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52	norm		no	no	0.953 0.962 0.957 0.960 0.964 0.964 0.962 0.973	-0.010 -0.010 -0.008 -0.009	0.063 0.064 0.065 0.064
01:38:33.98	26112	319.0	3.52	-10.90 -10.55	-0.18	80.68	eng	71.46	70.88	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.969 0.964 0.957 0.962 0.960 0.960 0.964 0.973	-0.007 -0.008 -0.007 -0.005	0.063 0.062 0.063 0.063
01:38:34.98	26144	318.0	3.52	-10.55 -10.55	0.00	80.68	eng	71.50	70.88	Oper	0.35	-0.35	1.54	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52		norm	no	no	0.944 0.969 0.971 0.957 0.969 0.964 0.973 0.964	-0.010 -0.012 -0.014 -0.011	0.064 0.063 0.065 0.063
01:38:35.98	26144	319.0	3.52	-10.55 -10.55	0.00	80.68	eng	71.50	70.88	Oper	0.35	-0.35	1.54	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.969 0.962 0.971 0.964 0.962 0.969 0.953 0.973	-0.006 -0.002 -0.011 -0.010	0.063 0.065 0.066 0.063
01:38:36.98	26176	319.0	3.52	-10.55 -10.55	0.00	80.68	eng	71.50	70.88	Oper	0.35	-0.35	1.54	1.54	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.964 0.948 0.973 0.976 0.969 0.973 0.973 0.978	-0.012 -0.003 -0.004 -0.013	0.063 0.064 0.065 0.065
01:38:37.98	26176	319.0	3.52	-10.55 -10.55	-0.18	80.68	eng	71.50	70.88	Oper	0.35	-0.35	1.54	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.969 0.969 0.964 0.971 0.960 0.978 0.964 0.973	-0.009 -0.007 -0.011 -0.009	0.062 0.064 0.063 0.062
01:38:38.98	26208	319.0	3.52	-10.55 -10.55	-0.18	80.68	eng	71.50	70.88	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.957 0.973 0.985 0.971 0.969 0.969 0.973 0.969	-0.009 -0.005 -0.012 -0.008	0.066 0.065 0.066 0.060
01:38:39.98	26240	319.0	3.52	-10.55 -10.55	0.00	80.68	eng	71.50	70.88	Oper	0.35	-0.18	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.973 0.969 0.962 0.973 0.973 0.957 0.969 0.971	-0.009 -0.002 -0.006 -0.008	0.063 0.063 0.064 0.065

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:38:40.98	26240	319.0	3.52	-10.55 -10.55	0.00	80.68	eng	71.50	70.88	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.957 0.973 0.973 0.971 0.971 0.994 0.980	-0.008 -0.008 -0.005 -0.005	0.062 0.062 0.065 0.064
01:38:41.98	26272	319.0	3.52	-10.90 -10.90	0.00	80.68	eng	71.50	70.93	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.971 0.969 0.971 0.962 0.969 0.960 0.971 0.976	-0.008 -0.003 -0.011 -0.009	0.066 0.062 0.063 0.064
01:38:42.98	26304	319.0	3.52	-10.55 -10.90	0.00	80.68	eng	71.54	70.93	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.980 0.973 0.973 0.971 0.962 0.976 0.971 0.950	-0.004 -0.006 -0.009 -0.005	0.063 0.062 0.064 0.063
01:38:43.98	26304	319.0	3.52	-10.90 -10.90	0.00	80.68	eng	71.54	70.97	Oper	0.35	-0.18	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.971 0.971 0.976 0.973 0.971 0.964 0.973 0.978	-0.008 -0.003 -0.008 -0.008	0.065 0.062 0.064 0.063
01:38:44.98	26336	319.0	3.52	-10.55 -10.55	0.18	80.68	eng	71.59	70.97	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52	norm		no	no	0.978 0.976 0.978 0.971 0.966 0.964 0.982	-0.007 -0.011 -0.014 -0.009	0.066 0.060 0.062 0.061
01:38:45.98	26336	319.0	3.52	-10.90 -10.55	0.18	80.68	eng	71.59	70.97	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.980 0.960 0.980 0.971 0.976 0.980 0.982 0.973	-0.010 -0.011 -0.008 -0.010	0.064 0.067 0.065 0.065
01:38:46.98	26368	319.0	3.52	-10.55 -10.55	0.18	80.68	eng	71.59	70.97	Oper	0.35	-0.18	1.55	1.55	Eng Run	Eng Run	3.9	2.29	0.70	2.29	3.52	norm		no	no	0.969 0.960 0.969 0.980 0.971 0.976 0.973 0.973	-0.016 -0.009 -0.005 -0.005	0.061 0.063 0.062 0.065
01:38:47.98	26400	319.0	3.52	-10.55 -10.55	0.18	80.68	eng	71.59	70.97	Oper	0.35	0.00	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.978 0.978 0.980 0.971 0.982 0.985 0.980 0.987	-0.019 -0.008 -0.006 -0.010	0.067 0.063 0.063 0.063
01:38:48.98	26400	319.0	3.52	-10.55 -10.55	0.00	80.86	eng	71.59	70.97	Oper	0.35	0.00	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52	norm		no	no	0.978 0.996 0.978 0.992 0.980 0.982 0.982 0.969	-0.007 -0.011 -0.008 -0.015	0.063 0.063 0.065 0.064
01:38:49.98	26432	319.0	3.52	-10.55 -10.55	-0.18	80.86	eng	71.59	71.02	Oper	0.35	0.00	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.973 0.976 0.992 0.971 0.978 0.973 0.980 0.980	-0.009 -0.010 -0.014 -0.013	0.063 0.064 0.065 0.063

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:38:50.98	26432	319.0	3.52	-10.90 -10.90	-0.18	80.86	eng	71.63	71.02	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52		norm	no	no	0.976 0.973 0.982 0.976 0.978 0.971 0.973 0.976	-0.010 -0.011 -0.009 -0.008	0.062 0.064 0.063 0.063
01:38:51.98	26464	319.0	3.52	-10.90 -10.55	-0.18	80.68	eng	71.63	71.02	Oper	0.35	-0.18	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.966 0.978 0.976 0.973 0.971 0.973 0.976 0.962	-0.007 -0.018 -0.008 -0.016	0.064 0.065 0.064 0.060
01:38:52.98	26496	319.0	3.52	-10.90 -10.90	-0.35	80.68	eng	71.63	71.02	Oper	0.35	-0.18	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.962 0.971 0.971 0.976 0.982 0.976 0.980 0.966	-0.010 -0.002 -0.007 -0.009	0.061 0.065 0.065 0.065
01:38:53.98	26496	319.0	3.52	-10.90 -10.90	-0.35	80.68	eng	71.63	71.02	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.973 0.976 0.971 0.969 0.966 0.969 0.969 0.971	-0.012 -0.011 -0.013 -0.009	0.062 0.064 0.062 0.064
01:38:54.98	26528	319.0	3.52	-10.90 -10.90	-0.35	80.68	eng	71.59	71.02	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52		norm	no	no	0.966 0.971 0.969 0.962 0.964 0.960 0.962 0.969	-0.007 -0.009 -0.008 -0.009	0.062 0.063 0.062 0.062
01:38:55.98	26560	319.0	3.52	-10.90 -10.90	-0.35	80.68	eng	71.63	71.02	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.957 0.964 0.964 0.962 0.962 0.978 0.960 0.962	-0.009 -0.008 -0.005 -0.009	0.062 0.062 0.061 0.061
01:38:56.98	26560	319.0	3.52	-10.90 -10.90	-0.35	80.68	eng	71.63	71.02	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52	norm		no	no	0.957 0.960 0.962 0.955 0.966 0.966 0.976 0.964	-0.010 -0.006 -0.004 -0.006	0.061 0.061 0.062 0.062
01:38:57.98	26592	319.0	3.52	-10.90 -10.90	-0.35	80.68	eng	71.63	71.02	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.946 0.962 0.960 0.955 0.966 0.973 0.964 0.964	-0.003 -0.012 -0.010 -0.007	0.062 0.062 0.062 0.063
01:38:58.98	26592	319.0	3.52	-10.90 -10.90	-0.35	80.68	eng	71.63	71.02	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52		norm	no	no	0.950 0.962 0.962 0.957 0.957 0.957 0.957 0.962	-0.008 -0.007 -0.008 -0.010	0.061 0.060 0.061 0.065
01:38:59.98	26624	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.63	71.02	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.957 0.957 0.960 0.962 0.960 0.976 0.962 0.960	-0.012 -0.009 -0.009 -0.005	0.061 0.062 0.061 0.062

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01:39:00.98	26656	318.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.63	71.06	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.973 0.960 0.957 0.960 0.962 0.960 0.964 0.971	-0.003 -0.016 -0.006 -0.009	0.063 0.062 0.061 0.062
01:39:01.98	26656	318.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.67	71.10	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.966 0.969 0.960 0.962 0.969 0.976 0.966 0.966	-0.008 -0.009 -0.009 -0.011	0.061 0.063 0.060 0.063
01:39:02.98	26688	318.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52		norm	no	no	0.962 0.960 0.966 0.944 0.966 0.957 0.964 0.962	-0.008 -0.011 -0.010 -0.010	0.062 0.063 0.060 0.061
01:39:03.98	26688	318.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.960 0.962 0.969 0.962 0.960 0.971 0.964 0.969	-0.005 -0.006 -0.010 -0.006	0.064 0.063 0.063 0.061
01:39:04.98	26720	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.56	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.964 0.960 0.966 0.966 0.955 0.960 0.971 0.966	-0.011 -0.006 -0.012 -0.014	0.062 0.061 0.062 0.062 0.062
01:39:05.98	26720	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.35	-0.18	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.966 0.964 0.969 0.973 0.966 0.953 0.969 0.962	-0.015 -0.014 -0.013 -0.009	0.063 0.059 0.061 0.061
01:39:06.98	26752	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.67	71.10	Oper	0.53	-0.35	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52		norm	no	no	0.978 0.969 0.985 0.969 0.962 0.969 0.973 0.971	-0.003 -0.012 -0.006 -0.013	0.062 0.063 0.063 0.062
01:39:07.98	26752	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.53	0.00	1.55	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.971 0.985 0.982 0.976 0.976 0.980 0.978 0.978	-0.009 -0.006 -0.007 -0.009	0.061 0.060 0.062 0.063
01:39:08.98	26784	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.67	71.10	Oper	0.53	0.00	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.978 0.973 0.976 0.976 0.978 0.973 0.976 0.978	-0.007 -0.008 -0.009 -0.002	0.061 0.064 0.063 0.063
01:39:09.98	26816	319.0	3.34	-10.90 -10.55	0.00	80.68	eng	71.72	71.10	Oper	0.53	-0.18	1.55	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.982 0.980 0.982 0.985 1.008 0.978 0.985 0.980	-0.004 -0.009 -0.006 -0.009	0.063 0.063 0.061 0.061

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01:39:10.98	26816	319.0	3.34	-10.90 -10.55	0.00	80.68	eng	71.67	71.10	Oper	0.53	0.00	1.55	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52		norm	no	no	0.973 0.964 0.989 0.987 0.987 0.978 0.964 0.985	-0.008 -0.011 -0.009 -0.007	0.059 0.061 0.063 0.064
01:39:11.98	26848	319.0	3.34	-10.55 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.53	0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.980 0.987 0.985 0.980 0.982 0.980 0.980 0.985	-0.011 -0.006 -0.009 -0.011	0.063 0.061 0.061 0.063
01:39:12.98	26848	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.67	71.10	Oper	0.53	0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.978 0.962 0.978 0.976 0.985 0.976 0.980 0.976	-0.009 -0.003 -0.006 -0.008	0.063 0.063 0.062 0.063
01:39:13.98	26880	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.53	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.973 0.982 0.973 0.971 0.971 0.976 0.978 0.976	-0.013 -0.007 -0.005 -0.008	0.061 0.063 0.063 0.063
01:39:14.98	26880	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.67	71.10	Oper	0.53	0.00	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.973 0.971 0.973 0.973 0.982 0.976 0.971 0.973	-0.010 -0.009 -0.010 -0.008	0.063 0.061 0.062 0.062
01:39:15.98	26912	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.67	71.10	Oper	0.53	0.00	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.969 0.973 0.978 0.976 0.964 0.985 0.976 0.964	-0.008 0.000 -0.008 -0.012	0.059 0.062 0.063 0.060
01:39:16.98	26944	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.53	0.00	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.971 0.973 0.978 0.964 0.973 0.973 0.946 0.962	-0.013 -0.010 0.000 -0.009	0.062 0.063 0.061 0.061
01:39:17.98	26944	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.53	-0.18	1.55	1.55	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.969 0.969 0.966 0.971 0.978 0.971 0.992 0.978	-0.015 -0.009 -0.013 -0.017	0.062 0.063 0.061 0.060
01:39:18.98	26976	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.53	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.966 0.966 0.978 0.973 0.976 0.969 0.964 0.971	-0.005 -0.006 -0.006 -0.009	0.059 0.062 0.061 0.064
01:39:19.98	26976	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.67	71.10	Oper	0.35	-0.35	1.55	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.973 0.969 0.973 0.964 0.971 0.969 0.973 0.971	-0.005 -0.002 -0.006 -0.006	0.060 0.061 0.061 0.064

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01:39:20.98	27008	319.0	3.34	-10.90 -10.90	0.00	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.969 0.966 0.973 0.957 0.966 0.966 0.971 0.973	-0.001 -0.009 -0.007 -0.008	0.062 0.064 0.063 0.063
01:39:21.98	27040	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.67	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.969 0.969 0.976 0.969 0.973 0.980 0.964 0.980	-0.005 -0.007 -0.009 -0.003	0.061 0.063 0.060 0.061
01:39:22.98	27040	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.72	71.10	Oper	0.53	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52		norm	no	no	0.976 0.969 0.973 0.978 0.978 0.971 0.971 0.978	-0.013 -0.010 -0.007 -0.011	0.060 0.059 0.060 0.061
01:39:23.98	27072	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.72	71.10	Oper	0.53	0.00	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.976 0.980 0.973 0.973 0.978 0.976 0.960 0.969	-0.007 -0.009 -0.018 -0.012	0.061 0.061 0.061 0.060
01:39:24.98	27072	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.67	71.10	Oper	0.53	0.00	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.34	norm		no	no	0.971 0.980 0.980 0.976 0.973 0.976 0.973 0.973	-0.014 -0.010 -0.006 -0.012	0.061 0.062 0.061 0.062
01:39:25.98	27104	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.72	71.10	Oper	0.53	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.969 0.971 0.976 0.973 0.980 0.973 0.976 0.980	-0.010 -0.014 -0.005 -0.010	0.061 0.062 0.062 0.061
01:39:26.98	27136	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.67	71.10	Oper	0.35	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.978 0.971 0.971 0.971 0.966 0.966 0.966 0.976	-0.015 -0.010 -0.008 -0.007	0.061 0.061 0.060 0.057
01:39:27.98	27136	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.72	71.10	Oper	0.35	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.973 0.966 0.973 0.969 0.957 0.973 0.969 0.973	-0.004 -0.008 -0.013 -0.008	0.062 0.060 0.059 0.058
01:39:28.98	27168	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.72	71.10	Oper	0.35	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52	norm		no	no	0.971 0.964 0.976 0.971 0.969 0.971 0.971 0.969	-0.003 -0.005 -0.008 -0.006	0.061 0.059 0.059 0.060
01:39:29.98	27168	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.964 0.960 0.950 0.962 0.973 0.964 0.964 0.964	-0.004 -0.007 -0.011 -0.010	0.060 0.062 0.057 0.061

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:39:30.98	27200	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.973 0.973 0.969 0.969 0.973 0.941 0.953 0.969	-0.011 -0.013 -0.009 -0.013	0.060 0.061 0.061 0.059
01:39:31.98	27232	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.946 0.964 0.960 0.971 0.953 0.944 0.957 0.969	-0.009 -0.005 -0.008 -0.006	0.061 0.060 0.060 0.057
01:39:32.98	27232	318.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52	norm		no	no	0.957 0.978 0.964 0.953 0.957 0.962 0.964 0.960	-0.006 -0.009 -0.008 -0.009	0.056 0.060 0.059 0.057
01:39:33.98	27264	318.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.67	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.957 0.955 0.953 0.960 0.946 0.950 0.957 0.957	-0.017 -0.012 -0.002 -0.005	0.058 0.059 0.060 0.058
01:39:34.98	27264	318.0	3.16	-10.90 -10.90	-0.35	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.943 0.953 0.957 0.957 0.932 0.948 0.939 0.953	-0.009 -0.012 -0.009 -0.007	0.059 0.061 0.059 0.060
01:39:35.98	27296	318.0	3.16	-10.90 -10.90	-0.35	80.68	eng	71.67	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.960 0.948 0.955 0.953 0.962 0.957 0.955 0.955	-0.009 -0.001 -0.009 -0.010	0.056 0.058 0.060 0.060
01:39:36.98	27296	318.0	3.16	-10.90 -10.90	-0.18	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52	norm		no	no	0.955 0.953 0.962 0.955 0.953 0.960 0.948 0.957	-0.011 -0.010 -0.003 -0.009	0.057 0.057 0.058 0.062
01:39:37.98	27328	318.0	3.16	-10.90 -10.90	0.00	80.68	eng	71.67	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.944 0.957 0.962 0.957 0.960 0.950 0.962 0.969	-0.009 -0.004 -0.010 -0.012	0.060 0.057 0.060 0.058
01:39:38.98	27328	318.0	2.99	-10.90 -10.90	0.18	80.68	eng	71.72	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52		norm	no	no	0.969 0.962 0.969 0.969 0.962 0.971 0.973 0.971	-0.006 -0.004 -0.006 -0.009	0.057 0.060 0.061 0.061
01:39:39.98	27360	319.0	2.99	-10.90 -10.90	0.18	80.68	eng	71.67	71.10	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.88	2.29	3.52			no	no	0.971 0.973 0.964 0.971 0.962 0.969 0.973 0.973	-0.011 -0.014 -0.010 -0.007	0.059 0.058 0.061 0.059

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:39:40.98	27360	318.0	2.99	-10.90 -10.90	0.18	80.68	eng	71.72	71.10	Oper	0.35	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52	norm		no	no	0.971 0.987 0.971 0.978 0.976 0.978 0.971 0.982	-0.009 -0.004 -0.009 -0.013	0.059 0.062 0.059 0.060
01:39:41.98	27392	319.0	2.99	-10.90 -10.90	0.35	80.68	eng	71.72	71.10	Oper	0.35	0.00	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.976 0.971 0.973 0.978 0.960 0.978 0.980 0.980	-0.009 0.000 0.004 -0.004	0.058 0.058 0.059 0.062
01:39:42.98	27392	319.0	3.16	-10.90 -10.90	0.35	80.86	eng	71.67	71.10	Oper	0.53	0.00	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52		norm	no	no	0.962 0.987 0.987 0.985 0.978 0.985 0.976 0.980	-0.006 -0.009 -0.009 -0.010	0.059 0.060 0.060 0.060
01:39:43.98	27424	319.0	3.16	-10.90 -10.90	0.35	80.86	eng	71.72	71.10	Oper	0.53	0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.982 0.994 0.982 0.989 0.985 0.980 0.987 0.989	-0.005 -0.013 -0.016 -0.013	0.060 0.060 0.062 0.060
01:39:44.98	27424	319.0	3.16	-10.90 -10.90	0.35	80.86	eng	71.67	71.10	Oper	0.53	0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.53	2.29	3.52	norm		no	no	0.985 0.989 0.985 0.978 0.989 0.992 0.985 0.989	-0.007 -0.007 -0.009 -0.014	0.059 0.059 0.059 0.059
01:39:45.98	27456	319.0	3.16	-10.90 -10.90	0.35	80.86	eng	71.72	71.10	Oper	0.53	0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.53	2.29	3.52			no	no	0.982 0.987 0.987 0.987 0.989 0.985 0.985 0.985	-0.006 -0.008 -0.008 -0.009	0.060 0.060 0.062 0.060
01:39:46.98	27456	319.0	3.16	-10.90 -10.90	0.18	80.86	eng	71.72	71.10	Oper	0.53	0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.53	2.29	3.52		norm	no	no	0.994 1.001 0.987 0.989 0.989 0.989 0.996 0.992	-0.015 -0.006 -0.003 -0.012	0.060 0.063 0.060 0.059
01:39:47.98	27488	319.0	3.16	-10.90 -10.90	0.00	80.86	eng	71.72	71.10	Oper	0.53	0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.53	2.29	3.52			no	no	0.987 0.994 0.994 0.985 0.980 0.992 0.985 0.973	-0.011 -0.005 -0.002 -0.001	0.062 0.060 0.061 0.060
01:39:48.98	27488	319.0	3.16	-10.90 -10.90	0.00	80.86	eng	71.72	71.10	Oper	0.53	0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.53	2.29	3.52	norm		no	no	0.978 0.980 0.996 0.987 0.982 0.980 0.989 0.982	-0.014 -0.009 -0.010 -0.013	0.060 0.059 0.059 0.054
01:39:49.98	27520	319.0	3.34	-10.90 -10.90	0.00	80.86	eng	71.72	71.10	Oper	0.53	0.00	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.53	2.29	3.52			no	no	0.980 0.987 0.980 0.994 0.982 0.987 0.985 0.969	-0.005 -0.003 -0.008 -0.008	0.060 0.059 0.061 0.059

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01:39:50.98	27552	319.0	3.34	-10.90 -10.90	-0.18	80.86	eng	71.72	71.15	Oper	0.53	0.00	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.53	2.29	3.52		norm	no	no	0.989 0.973 0.996 0.982 0.973 0.980 0.973 0.973	-0.008 -0.005 0.003 -0.012 0.003 0.003 0.003	0.057 0.061 0.059 0.060
01:39:51.98	27552	319.0	3.34	-10.90 -10.90	-0.35	80.86	eng	71.72	71.15	Oper	0.53	0.00	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.53	2.29	3.52			no	no	0.980 0.978 0.978 0.978 0.982 0.985 0.978 0.978	-0.008 -0.012 -0.004 -0.007 -0.004 -0.004 -0.004	0.057 0.056 0.062 0.062 0.056
01:39:52.98	27584	319.0	3.34	-10.90 -10.90	-0.35	80.86	eng	71.76	71.15	Oper	0.53	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52	norm		no	no	0.982 0.976 0.980 0.985 0.987 0.973 0.978 0.980	-0.007 -0.003 -0.004 -0.008 -0.008 -0.008 -0.008	0.059 0.057 0.063 0.059
01:39:53.98	27584	319.0	3.34	-10.90 -10.90	-0.35	80.86	eng	71.76	71.15	Oper	0.35	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.978 0.985 0.980 0.969 0.976 0.980 0.962 0.978	-0.013 -0.011 -0.009 -0.006 -0.006 -0.006 -0.006	0.059 0.058 0.057 0.059
01:39:54.98	27616	319.0	3.34	-10.90 -10.90	-0.35	80.86	eng	71.76	71.15	Oper	0.35	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52	norm		no	no	0.965 0.966 0.966 0.969 0.964 0.973 0.971 0.978	-0.004 -0.010 -0.008 -0.008 -0.008 -0.008 -0.008	0.062 0.059 0.058 0.057
01:39:55.98	27616	319.0	3.34	-10.90 -10.90	-0.35	80.68	eng	71.76	71.15	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.969 0.973 0.994 0.982 0.969 0.978 0.969 0.976	-0.010 -0.005 -0.008 -0.010 -0.005 -0.005 -0.005	0.058 0.059 0.059 0.057
01:39:56.98	27648	319.0	3.34	-10.90 -10.90	-0.35	80.68	eng	71.76	71.15	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52	norm		no	no	0.969 0.978 0.966 0.973 0.971 0.980 0.944 0.976	-0.007 -0.008 -0.008 -0.003 -0.003 -0.003 -0.003	0.059 0.054 0.058 0.059
01:39:57.98	27680	319.0	3.34	-10.90 -10.90	-0.35	80.68	eng	71.76	71.15	Oper	0.35	-0.35	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.971 0.966 0.969 0.973 0.973 0.980 0.971 0.973	-0.005 -0.004 -0.007 -0.007 -0.007 -0.007 -0.007	0.059 0.059 0.057 0.057
01:39:58.98	27680	320.0	3.34	-10.90 -10.90	-0.35	80.68	eng	71.76	71.15	Oper	0.35	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52	norm		no	no	0.971 0.987 0.973 0.987 0.969 0.966 0.960 0.973	-0.004 -0.011 -0.008 -0.014 -0.008 -0.008 -0.008	0.055 0.060 0.056 0.055
01:39:59.98	27712	319.0	3.34	-10.90 -10.90	-0.18	80.68	eng	71.76	71.15	Oper	0.35	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52			no	no	0.969 0.976 0.971 0.971 0.966 0.973 0.980 0.971	-0.010 -0.012 -0.002 -0.004 -0.002 -0.002 -0.002	0.059 0.056 0.058 0.057

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:40:00.98	27712	319.0	3.34	-10.90 -10.90	-0.53	80.68	eng	71.76	71.15	Oper	0.35	-0.18	1.56	1.56	Eng Run	Eng Run	3.9	2.11	0.70	2.29	3.52	norm		no	no	0.962 0.976 0.962 0.955 0.955 0.980 0.980 0.973	-0.009 -0.012 -0.006 -0.003	0.059 0.058 0.057 0.060
01:40:01.98	27744	318.0	3.34	-10.90 -10.90	-0.70	80.68	eng	71.76	71.15	Oper	0.35	-0.35	1.56	1.57	Eng Run	Eng Run	3.9	1.93	0.70	2.29	3.52			no	no	0.946 0.966 0.962 0.971 0.971 0.973 0.966 0.944	-0.006 -0.012 -0.008 -0.012	0.062 0.061 0.058 0.060
01:40:02.98	27776	317.0	3.34	-10.90 -10.90	-0.88	80.68	eng	71.76	71.15	Oper	0.35	-0.18	1.56	1.57	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.953 0.957 0.969 0.971 0.964 0.976 0.989 0.973	-0.013 -0.007 -0.012 -0.013	0.058 0.059 0.060 0.054
01:40:03.98	27776	317.0	3.34	-10.90 -10.90	-0.88	80.68	eng	71.76	71.15	Oper	0.35	-0.18	1.57	1.57	Eng Run	Eng Run	3.9	1.76	1.05	2.29	3.52			no	no	0.962 0.957 0.971 0.962 0.982 0.973 0.978 0.980	-0.009 -0.009 -0.002 -0.007	0.063 0.055 0.058 0.060
01:40:04.98	27808	317.0	3.34	-10.90 -10.90	-0.88	80.68	eng	71.76	71.15	Oper	0.53	0.00	1.57	1.57	Eng Run	Eng Run	3.9	1.76	1.05	2.29	3.52	norm		no	no	0.960 0.966 0.966 0.973 0.969 0.964 0.962 0.964	-0.013 -0.010 -0.013 -0.008	0.062 0.060 0.057 0.059
01:40:05.98	27808	317.0	3.34	-10.90 -10.90	-0.88	80.68	eng	71.76	71.15	Oper	0.53	0.00	1.57	1.57	Eng Run	Eng Run	3.9	1.76	1.05	2.29	3.52			no	no	0.969 0.960 0.955 0.957 0.969 0.976 0.982 0.969	-0.005 -0.010 -0.009 -0.011	0.060 0.062 0.061 0.059
01:40:06.98	27840	318.0	3.34	-10.90 -10.90	-0.88	80.68	eng	71.76	71.15	Oper	0.53	0.00	1.57	1.57	Eng Run	Eng Run	3.9	1.76	1.05	2.29	3.52		norm	no	no	0.964 0.976 0.982 0.982 0.985 0.987 0.985 0.987	-0.007 -0.005 -0.009 -0.010	0.058 0.059 0.059 0.059
01:40:07.98	27872	317.0	3.34	-10.90 -10.90	-0.53	80.68	eng	71.76	71.15	Oper	0.53	0.00	1.57	1.57	Eng Run	Eng Run	3.9	1.76	1.05	2.29	3.52			no	no	0.989 0.978 0.976 0.980 0.976 0.978 0.971 0.982	-0.006 -0.011 -0.008 -0.004	0.060 0.060 0.059 0.057
01:40:08.98	27872	317.0	3.34	-10.90 -10.90	-0.53	80.51	eng	71.76	71.15	Oper	0.53	0.18	1.57	1.57	Eng Run	Eng Run	3.9	1.76	1.05	2.29	3.52	norm		no	no	0.992 0.996 1.012 0.987 0.985 0.989 0.992 0.978	-0.008 -0.011 -0.008 -0.014	0.057 0.060 0.057 0.060
01:40:09.98	27904	317.0	3.34	-10.90 -10.90	-0.35	80.51	eng	71.76	71.15	Oper	0.53	0.35	1.57	1.57	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52			no	no	0.994 0.987 0.987 0.985 0.992 0.985 0.978	-0.012 -0.012 -0.015 -0.012	0.061 0.062 0.059 0.061

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:40:10.98	27904	317.0	3.52	-10.90 -10.90	-0.18	80.51	eng	71.76	71.15	Oper	0.53	0.35	1.57	1.57	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52		norm	no	no	1.012 0.996 0.987 0.980 0.980 0.969 0.982 0.976	-0.006 -0.011 -0.010 -0.005	0.059 0.062 0.057 0.060
01:40:11.98	27936	317.0	3.52	-10.90 -10.90	-0.18	80.51	eng	71.76	71.15	Oper	0.53	0.18	1.57	1.57	Eng Run	Eng Run	3.9	1.93	1.05	2.29	3.52			no	no	0.976 0.982 0.996 0.996 0.994 1.012 1.003 0.994	-0.007 -0.011 -0.011 -0.010	0.059 0.060 0.060 0.057
01:40:12.98	27968	317.0	3.52	-10.90 -10.90	0.18	80.51	eng	71.76	71.15	Oper	0.53	0.18	1.57	1.57	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52	norm		no	no	0.978 0.980 0.980 0.994 0.989 0.994 0.989 0.978	-0.003 -0.007 -0.015 -0.016	0.062 0.061 0.061 0.059
01:40:13.98	27968	317.0	3.52	-10.90 -10.90	0.00	80.51	eng	71.76	71.15	Oper	0.53	0.35	1.57	1.57	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	0.994 0.996 0.996 0.964 0.980 0.989 0.987 1.003	-0.011 -0.007 -0.007 -0.011	0.059 0.059 0.060 0.059
01:40:14.98	28000	317.0	3.69	-10.90 -10.55	0.00	80.68	eng	71.76	71.15	Oper	0.53	0.35	1.57	1.57	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.34		norm	no	no	0.985 0.985 0.987 0.976 0.985 0.987 1.003 1.008	-0.007 -0.004 -0.010 -0.005	0.055 0.056 0.065 0.060
01:40:15.98	28032	318.0	3.69	-10.90 -10.90	0.18	80.68	eng	71.76	71.15	Oper	0.53	0.35	1.57	1.57	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	1.003 0.985 0.987 1.005 0.980 0.987 0.992 0.992	-0.007 -0.013 -0.009 -0.006	0.058 0.060 0.059 0.057
01:40:16.98	28032	317.0	3.69	-10.90 -10.90	0.18	80.68	eng	71.76	71.19	Oper	0.53	0.35	1.57	1.57	Eng Run	Eng Run	3.9	1.93	0.88	2.11	3.52	norm		no	no	0.994 0.987 0.982 0.994 0.982 0.978 0.982 0.978	-0.009 -0.013 -0.012 -0.008	0.060 0.057 0.062 0.056
01:40:17.98	28064	317.0	3.69	-10.90 -10.90	0.18	80.68	eng	71.81	71.19	Oper	0.53	0.35	1.57	1.57	Eng Run	Eng Run	3.9	1.93	0.88	2.11	3.52			no	no	0.987 0.985 0.992 1.003 0.962 0.964 0.973 0.969	-0.013 -0.005 -0.011 -0.007	0.057 0.060 0.058 0.059
01:40:18.98	28096	317.0	3.69	-10.90 -10.90	0.18	80.68	eng	71.81	71.19	Oper	0.53	0.18	1.57	1.57	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52		norm	no	no	0.982 0.998 0.992 0.985 0.976 0.969 0.971 0.976	-0.010 -0.010 -0.015 -0.009	0.061 0.059 0.059 0.055
01:40:19.98	28128	317.0	3.69	-10.90 -10.90	0.18	80.68	eng	71.81	71.19	Oper	0.53	0.18	1.58	1.58	Eng Run	Eng Run	3.9	1.93	0.88	2.29	3.52			no	no	1.003 0.982 0.989 0.982 0.973 0.976 0.973 1.001	-0.006 -0.006 -0.005 -0.013	0.061 0.058 0.059 0.057

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01:40:20.98	28160	317.0	3.69	-10.90 -10.90	0.18	80.51	eng	71.81	71.19	Oper	0.53	0.35	1.57	1.58	Eng Run	Eng Run	3.9	1.93	0.88	2.11	3.52	norm		no	no	0.973 0.978 0.994 0.976 0.980 0.971 0.971 0.976	-0.014 -0.008 -0.002 -0.006	0.059 0.057 0.056 0.059
01:40:21.98	28160	316.0	3.87	-10.90 -10.90	0.35	80.51	eng	71.81	71.19	Oper	0.53	0.35	1.57	1.57	Eng Run	Eng Run	3.9	1.93	0.88	2.11	3.52			no	no	0.982 0.973 0.982 0.976 0.973 0.976 0.973 0.980	-0.011 -0.013 -0.009 -0.010	0.057 0.058 0.058 0.056
01:40:22.98	28192	316.0	3.87	-10.90 -10.90	0.35	80.51	eng	71.81	71.19	Oper	0.53	0.18	1.58	1.58	Eng Run	Eng Run	3.9	2.11	0.88	2.11	3.52		norm	no	no	0.978 0.971 0.969 0.973 0.978 0.976 0.978 0.971	-0.011 -0.004 -0.017 -0.008	0.056 0.057 0.057 0.055
01:40:23.98	28224	316.0	3.87	-10.90 -10.90	0.35	80.51	eng	71.81	71.19	Oper	0.53	0.18	1.58	1.58	Eng Run	Eng Run	3.9	2.11	0.88	2.11	3.52			no	no	0.962 0.976 0.978 0.973 0.980 0.978 0.978 0.971	-0.004 -0.006 -0.008 -0.006	0.058 0.057 0.057 0.058
01:40:24.98	28256	316.0	3.87	-10.90 -10.90	0.35	80.51	eng	71.81	71.19	Oper	0.53	0.35	1.58	1.58	Eng Run	Eng Run	3.9	2.11	0.70	2.11	3.52	norm		no	no	0.980 0.969 0.978 0.976 0.971 0.978 0.969 0.978	-0.005 -0.011 -0.011 -0.011	0.055 0.057 0.054 0.053
01:40:25.98	28256	316.0	3.87	-10.90 -10.90	0.18	80.33	eng	71.81	71.19	Oper	0.53	0.35	1.58	1.58	Eng Run	Eng Run	3.9	2.11	0.70	2.11	3.52			no	no	0.976 0.971 0.971 0.976 0.971 0.976 0.976 0.978	-0.008 -0.005 -0.003 -0.013	0.059 0.056 0.058 0.053
01:40:26.98	28288	315.0	3.87	-10.90 -10.90	0.18	80.33	eng	71.81	71.19	Oper	0.53	0.35	1.58	1.58	Eng Run	Eng Run	3.9	2.11	0.70	2.11	3.52		norm	no	no	0.973 0.973 0.973 0.978 0.964 0.973 0.976 0.973	-0.003 -0.004 -0.010 -0.010	0.061 0.058 0.056 0.057
01:40:27.98	28320	315.0	3.87	-10.90 -10.90	0.00	80.33	eng	71.81	71.19	Oper	0.53	0.35	1.58	1.58	Eng Run	Eng Run	3.9	2.11	0.88	2.11	3.52			no	no	0.976 0.971 0.973 0.969 0.969 0.978 0.973 0.971	-0.006 -0.011 -0.008 -0.004	0.056 0.056 0.056 0.058
01:40:28.98	28352	315.0	3.87	-10.90 -10.90	-0.18	80.33	eng	71.81	71.19	Oper	0.53	0.18	1.58	1.58	Eng Run	Eng Run	3.9	1.93	0.88	2.11	3.52	norm		no	no	0.971 0.971 0.976 0.969 0.971 0.971 0.973 0.976	-0.007 -0.022 -0.010 -0.013	0.057 0.059 0.062 0.056
01:40:29.98	28352	315.0	3.87	-10.90 -10.90	-0.35	80.33	eng	71.76	71.15	Oper	0.53	0.18	1.58	1.58	Eng Run	Eng Run	3.9	1.93	0.88	2.11	3.52			no	no	0.971 0.973 0.964 0.971 0.964 0.969 0.964 0.969	-0.011 -0.005 -0.012 -0.008	0.057 0.053 0.056 0.057

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01:40:30.98	28384	314.0	3.87	-10.90 -10.90	-0.53	80.33	eng	71.72	71.10	Oper	0.53	0.18	1.58	1.58	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34		norm	no	no	0.964 0.973 0.971 0.969 0.962 0.969 0.969 0.964	-0.015 -0.009 -0.015 -0.015 -0.015 -0.015 -0.015 -0.015	0.058 0.059 0.060 0.060 0.056
01:40:31.98	28416	314.0	3.87	-10.90 -10.90	-0.70	80.33	eng	71.67	71.10	Oper	0.53	0.00	1.58	1.58	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.962 0.969 0.969 0.955 0.962 0.962 0.962 0.971	-0.008 -0.008 -0.007 -0.008 -0.008 -0.008 -0.008 -0.008	0.056 0.057 0.056 0.061
01:40:32.98	28448	314.0	3.69	-10.90 -10.90	-0.70	80.33	eng	71.67	71.10	Oper	0.53	0.18	1.58	1.58	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.964 0.953 0.955 0.955 0.960 0.957 0.962 0.962 0.971	-0.008 -0.001 -0.009 -0.009 -0.004 -0.008 -0.008 -0.008 -0.008	0.057 0.059 0.059 0.057
01:40:33.98	28480	314.0	3.69	-10.90 -10.90	-0.53	80.16	eng	71.67	71.10	Oper	0.53	0.18	1.58	1.58	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.960 0.960 0.960 0.957 0.957 0.964 0.980 0.962 0.962	-0.009 -0.009 -0.008 -0.006 -0.006 -0.008 -0.008 -0.008 -0.008	0.057 0.059 0.059 0.061
01:40:34.98	28480	313.0	3.69	-10.90 -10.90	-0.53	80.16	eng	71.67	71.10	Oper	0.53	0.18	1.58	1.58	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34		norm	no	no	0.971 0.955 0.973 0.955 0.962 0.957 0.962 0.964 0.962	-0.013 -0.004 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008 -0.008	0.059 0.060 0.054 0.060
01:40:35.98	28512	313.0	3.69	-10.90 -10.90	-0.35	80.16	eng	71.67	71.10	Oper	0.53	0.18	1.58	1.58	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.960 0.962 0.962 0.962 0.953 0.964 0.960 0.964 0.969	-0.008 -0.011 -0.010 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011	0.062 0.059 0.059 0.057
01:40:36.98	28544	313.0	3.69	-10.90 -10.90	-0.18	80.16	eng	71.67	71.10	Oper	0.53	0.35	1.58	1.58	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.962 0.966 0.960 0.969 0.969 0.962 0.971 0.962	-0.010 -0.009 -0.009 -0.008 -0.008 -0.008 -0.008 -0.008	0.060 0.058 0.060 0.059
01:40:37.98	28544	313.0	3.69	-10.90 -10.90	-0.18	80.16	eng	71.67	71.10	Oper	0.53	0.35	1.58	1.58	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.971 0.966 0.969 0.969 0.969 0.964 0.964 0.966 0.969	-0.007 -0.008 -0.011 -0.011 -0.007 -0.007 -0.007 -0.007 -0.007	0.060 0.058 0.061 0.057
01:40:38.98	28576	313.0	3.69	-10.90 -10.90	-0.18	80.16	eng	71.63	71.10	Oper	0.53	0.35	1.58	1.58	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34		norm	no	no	0.964 0.971 0.962 0.962 0.955 0.957 0.962 0.962	-0.012 -0.009 -0.009 -0.010 -0.010 -0.010 -0.010 -0.010	0.059 0.057 0.057 0.059
01:40:39.98	28608	313.0	3.69	-10.90 -10.90	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.18	1.59	1.59	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.960 0.957 0.982 0.960 0.971 0.976 0.978 0.976	-0.010 -0.009 -0.011 -0.011 -0.011 -0.011 -0.011 -0.011	0.054 0.058 0.059 0.057

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01:40:40.98	28640	313.0	3.69	-10.90 -10.90	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.58	1.59	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.971 0.969 0.973 0.976 0.971 0.957 0.971 0.976	-0.010 -0.010 -0.007 -0.010	0.058 0.059 0.059 0.059
01:40:41.98	28640	312.0	3.69	-10.90 -10.55	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.52			no	no	0.966 0.964 0.976 0.953 0.971 0.989 0.978 0.976	-0.005 -0.011 -0.010 -0.015	0.063 0.059 0.061 0.058
01:40:42.98	28672	312.0	3.69	-10.55 -10.55	-0.18	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.52		norm	no	no	0.937 0.980 0.987 0.978 0.976 0.980 0.976 0.976	-0.008 -0.008 -0.003 -0.008	0.057 0.060 0.059 0.058
01:40:43.98	28704	312.0	3.69	-10.55 -10.55	-0.18	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.985 0.966 0.980 0.976 0.971 0.978 0.964 0.990	-0.007 -0.006 -0.013 -0.010	0.058 0.059 0.059 0.060
01:40:44.98	28704	312.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.978 0.980 0.980 0.978 0.969 0.978 0.966 0.978	-0.009 -0.007 -0.008 -0.009	0.059 0.063 0.060 0.057
01:40:45.98	28736	311.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.52			no	no	0.971 0.966 0.966 0.960 0.964 0.964 0.982 0.966	-0.005 -0.009 -0.010 -0.006	0.061 0.057 0.059 0.063
01:40:46.98	28768	311.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.93	1.05	2.11	3.34		norm	no	no	0.964 0.966 0.966 0.964 0.962 0.964 0.971 0.969	-0.008 -0.009 -0.012 -0.010	0.057 0.060 0.058 0.059
01:40:47.98	28800	311.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.93	1.05	2.11	3.34			no	no	0.969 0.964 0.973 0.966 0.969 0.973 0.969	-0.010 -0.007 -0.010 -0.010	0.059 0.059 0.060 0.060
01:40:48.98	28800	311.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.93	1.05	2.11	3.34	norm		no	no	0.973 0.971 0.966 0.969 0.966 0.964 0.966 0.962	-0.005 -0.009 -0.007 -0.010	0.060 0.061 0.061 0.059
01:40:49.98	28832	310.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.964 0.960 0.966 0.964 0.966 0.966 0.962	-0.012 -0.011 -0.011 -0.009	0.059 0.059 0.060 0.060

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:40:50.98	28864	310.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34		norm	no	no	0.962 0.969 0.966 0.962 0.957 0.944 0.969 0.964	-0.012 -0.003 -0.009 -0.001	0.056 0.056 0.059 0.056
01:40:51.98	28864	309.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.67	71.10	Oper	0.53	0.35	1.59	1.59	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.969 0.962 0.962 0.969 0.966 0.946 0.971 0.964	-0.003 -0.007 -0.010 -0.008	0.061 0.060 0.059 0.059
01:40:52.98	28896	309.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.67	71.06	Oper	0.53	0.35	1.59	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.953 0.964 0.973 0.971 0.962 0.964 0.969 0.964	-0.010 -0.010 -0.013 -0.012	0.061 0.058 0.059 0.060
01:40:53.98	28928	309.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.67	71.10	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.957 0.966 0.962 0.964 0.953 0.973 0.969 0.960	-0.019 -0.008 -0.008 -0.007	0.060 0.059 0.059 0.057
01:40:54.98	28928	309.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.67	71.06	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34		norm	no	no	0.964 0.962 0.964 0.962 0.964 0.950 0.969 0.964	-0.006 -0.012 -0.012 -0.012	0.061 0.059 0.060 0.061
01:40:55.98	28960	309.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.67	71.10	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.966 0.957 0.969 0.969 0.964 0.948 0.966 0.969	-0.011 -0.010 -0.007 -0.010	0.060 0.061 0.059 0.060
01:40:56.98	28992	309.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.67	71.10	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.966 0.962 0.976 0.964 0.964 0.966 0.969 0.969	-0.006 -0.012 -0.005 -0.010	0.059 0.062 0.060 0.059
01:40:57.98	28992	309.0	3.69	-10.55 -10.55	-0.18	79.80	eng	71.67	71.06	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.960 0.962 0.969 0.962 0.973 0.976 0.969 0.971	-0.009 -0.013 -0.005 -0.009	0.059 0.061 0.062 0.060
01:40:58.98	29024	309.0	3.69	-10.55 -10.55	-0.18	79.80	eng	71.67	71.06	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34		norm	no	no	0.976 0.971 0.973 0.973 0.973 0.985 0.976 0.971	-0.015 -0.017 -0.011 -0.012	0.060 0.060 0.062 0.060
01:40:59.98	29056	309.0	3.69	-10.55 -10.55	-0.18	79.80	eng	71.67	71.06	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.971 0.969 0.978 0.969 0.976 0.964 0.969 0.973	-0.010 -0.010 -0.006 -0.008	0.060 0.060 0.061 0.061

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:41:00.98	29056	309.0	3.69	-10.55 -10.55	-0.35	79.80	eng	71.67	71.10	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34	norm		no	no	0.964 0.971 0.971 0.969 0.962 0.962 0.976 0.976	-0.010 -0.014 -0.008 -0.003	0.061 0.060 0.061 0.061
01:41:01.98	29088	309.0	3.69	-10.55 -10.55	-0.18	79.80	eng	71.72	71.10	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.973 0.976 0.973 0.978 0.976 0.973 0.978 0.976	-0.009 -0.007 -0.012 -0.010	0.060 0.060 0.061 0.059
01:41:02.98	29088	308.0	3.69	-10.55 -10.55	-0.18	79.80	eng	71.76	71.15	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34	norm		no	no	0.973 0.976 0.955 0.973 0.976 0.969 0.978 0.971	-0.010 -0.009 -0.009 -0.010	0.058 0.057 0.055 0.060
01:41:03.98	29120	308.0	3.69	-10.55 -10.55	-0.18	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.973 0.971 0.980 0.980 0.976 0.978 0.978 0.971	-0.015 -0.006 -0.011 -0.012	0.061 0.062 0.063 0.062
01:41:04.98	29152	308.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34	norm		no	no	0.973 0.973 0.973 0.973 0.971 0.976 0.973 0.978	-0.013 -0.012 -0.013 -0.009	0.061 0.060 0.059 0.060
01:41:05.98	29152	308.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.969 0.971 0.973 0.964 0.973 0.964 0.973 0.980	-0.011 -0.008 -0.011 -0.011	0.061 0.060 0.057 0.060
01:41:06.98	29184	308.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.962 0.978 0.980 0.976 0.969 0.982 0.978 0.980	-0.009 -0.012 -0.009 -0.012	0.060 0.060 0.060 0.060
01:41:07.98	29216	308.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.76	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.976 0.973 0.976 0.973 0.978 0.976 0.971 0.971	-0.010 -0.015 -0.008 -0.010	0.060 0.061 0.058 0.060
01:41:08.98	29216	308.0	3.69	-10.55 -10.55	-0.18	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34	norm		no	no	0.973 0.971 0.971 0.973 0.973 0.987 0.969 0.973	-0.013 -0.007 -0.008 -0.006	0.060 0.060 0.060 0.062
01:41:09.98	29248	308.0	3.69	-10.55 -10.55	-0.18	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.973 0.973 0.973 0.971 0.969 0.976 0.969 0.971	-0.009 -0.009 -0.005 -0.010	0.062 0.060 0.059 0.061

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:41:10.98	29248	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34		norm	no	no	0.969 0.969 0.971 0.962 0.962 0.969 0.964 0.969	-0.011 -0.007 -0.006 -0.012	0.059 0.061 0.062 0.061
01:41:11.98	29280	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.960 0.971 0.964 0.969 0.978 0.971 0.978 0.964	-0.007 -0.009 -0.006 -0.009	0.060 0.060 0.056 0.061
01:41:12.98	29312	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.971 0.971 0.964 0.971 0.976 0.964 0.969 0.971	-0.010 -0.012 -0.007 -0.011	0.059 0.060 0.060 0.060
01:41:13.98	29312	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.60	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.964 0.962 0.971 0.976 0.969 0.960 0.962 0.973	-0.015 -0.003 -0.011 -0.011	0.059 0.062 0.058 0.058
01:41:14.98	29344	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.52	norm		no	no	0.978 0.973 0.976 0.980 0.978 0.971 0.960 0.976	-0.003 -0.009 -0.012 -0.009	0.060 0.062 0.061 0.062
01:41:15.98	29376	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.60	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.980 0.976 0.969 0.976 0.971 0.980 0.978 0.982	-0.013 -0.008 -0.008 -0.011	0.060 0.060 0.061 0.061
01:41:16.98	29376	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.19	Oper	0.53	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.976 0.962 0.953 0.980 0.973 0.978 0.973 0.980	-0.011 -0.011 -0.011 -0.005	0.060 0.063 0.059 0.060
01:41:17.98	29408	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.81	71.24	Oper	0.53	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.964 0.973 0.978 0.976 0.969 0.973 0.971 0.978	-0.005 -0.006 -0.008 -0.009	0.060 0.060 0.060 0.062
01:41:18.98	29408	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.85	71.28	Oper	0.53	0.35	1.60	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.978 0.976 0.978 0.971 0.971 0.971 0.980 0.980	-0.007 -0.010 -0.013 -0.010	0.061 0.061 0.061 0.060
01:41:19.98	29440	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.89	71.28	Oper	0.53	0.35	1.60	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.973 0.966 0.978 0.973 0.973 0.985 0.976 0.976	-0.011 -0.014 -0.009 -0.006	0.059 0.060 0.060 0.061

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01:41:20.98	29472	307.0	3.69	-10.55 -10.55	0.00	79.80	eng	71.89	71.28	Oper	0.53	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.973 0.969 0.969 0.973 0.989 0.971 0.966 0.969	-0.006 -0.004 -0.009 -0.010	0.059 0.060 0.057 0.060
01:41:21.98	29472	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.53	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.969 0.969 0.964 0.971 0.978 0.962 0.960 0.976	-0.010 -0.009 -0.013 -0.013	0.061 0.060 0.063 0.060
01:41:22.98	29504	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.53	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.964 0.966 0.966 0.966 0.971 0.969 0.966	-0.008 -0.004 -0.010 -0.011	0.060 0.060 0.057 0.058
01:41:23.98	29536	306.0	3.69	-10.55 -10.55	-0.18	79.98	eng	71.89	71.28	Oper	0.53	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.964 0.966 0.973 0.966 0.971 0.962 0.964 0.966	-0.005 -0.007 -0.011 -0.008	0.060 0.060 0.060 0.057
01:41:24.98	29536	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.53	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34	norm		no	no	0.965 0.966 0.969 0.973 0.964 0.971 0.971 0.978	-0.005 -0.004 -0.007 -0.011	0.059 0.060 0.060 0.056
01:41:25.98	29568	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.53	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.976 0.969 0.962 0.982 0.966 0.966 0.980	-0.008 -0.011 -0.009 -0.014	0.061 0.061 0.061 0.060
01:41:26.98	29568	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.53	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34	norm		no	no	0.989 0.973 0.973 0.973 0.973 0.976 0.973 0.985	-0.012 -0.008 -0.014 -0.013	0.059 0.063 0.057 0.056
01:41:27.98	29600	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.53	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.969 0.976 0.978 0.982 0.985 0.973 0.976 0.978	-0.008 -0.009 -0.011 -0.010	0.061 0.061 0.061 0.061
01:41:28.98	29632	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34	norm		no	no	0.971 0.973 0.978 0.978 0.976 0.973 0.994 0.982	-0.009 -0.008 -0.007 -0.009	0.059 0.060 0.062 0.060
01:41:29.98	29632	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.973 0.978 0.982 0.978 0.976 0.982 0.987 0.982	-0.009 -0.008 -0.007 -0.010	0.056 0.060 0.062 0.055

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:41:30.98	29664	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34		norm	no	no	0.966 0.978 0.980 0.966 0.969 0.985 0.980 0.982	-0.003 -0.006 -0.013 -0.013	0.060 0.059 0.060 0.059
01:41:31.98	29696	306.0	3.69	-10.55 -10.55	0.18	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.982 0.976 0.982 0.978 0.985 0.985 0.982 0.980	-0.012 -0.009 -0.011 -0.010	0.060 0.060 0.060 0.061
01:41:32.98	29696	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.982 0.978 0.980 0.980 0.980 0.982 0.985 0.976	-0.008 -0.008 -0.004 -0.013	0.060 0.058 0.062 0.060
01:41:33.98	29728	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.994 0.980 0.994 0.985 0.976 0.980 0.973 0.976	-0.013 -0.011 -0.007 -0.013	0.054 0.060 0.060 0.060
01:41:34.98	29760	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34		norm	no	no	0.980 0.964 0.980 0.985 0.976 0.976 0.978 0.987	-0.007 -0.007 -0.010 -0.011	0.064 0.058 0.057 0.056
01:41:35.98	29760	306.0	3.87	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.985 0.976 0.982 0.978 0.976 0.992 0.982 0.980	-0.010 -0.013 0.001 -0.008	0.060 0.061 0.059 0.059
01:41:36.98	29792	306.0	3.87	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.976 0.985 0.980 0.980 0.976 0.978 0.966 0.976	-0.010 -0.005 -0.005 -0.007	0.060 0.057 0.060 0.061
01:41:37.98	29824	306.0	3.69	-10.55 -10.55	0.00	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.973 0.971 0.969 0.966 0.971 0.971 0.973 0.971	-0.012 -0.011 -0.009 -0.013	0.058 0.058 0.057 0.057
01:41:38.98	29824	305.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34		norm	no	no	0.971 0.994 0.982 0.978 0.966 0.976 0.980 0.982	-0.009 -0.013 -0.009 -0.009	0.057 0.058 0.059 0.060
01:41:39.98	29856	305.0	3.87	-10.55 -10.55	0.00	80.16	eng	71.89	71.28	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.976 0.973 0.973 0.978 0.969 0.973 0.971 0.982	-0.006 -0.009 -0.004 -0.005	0.058 0.061 0.063 0.061

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:41:40.98	29888	305.0	3.87	-10.55 -10.55	0.00	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.971 0.973 0.966 0.969 0.971 0.976 0.976 0.973	-0.010 -0.014 -0.007 -0.010	0.061 0.057 0.060 0.060
01:41:41.98	29888	305.0	3.87	-10.55 -10.55	0.18	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.61	1.61	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.978 0.973 0.969 0.971 0.966 0.957 0.973 0.969	-0.016 -0.010 -0.011 -0.014	0.060 0.060 0.058 0.060
01:41:42.98	29920	305.0	3.87	-10.55 -10.55	0.00	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.61	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.973 0.966 0.985 0.978 0.971 0.980 0.973 0.976	-0.006 -0.010 -0.013 -0.009	0.060 0.058 0.057 0.060
01:41:43.98	29952	305.0	3.87	-10.55 -10.55	0.00	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.61	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.976 0.976 0.976 0.964 0.966 0.969 0.966	-0.011 -0.015 -0.007 -0.009	0.056 0.063 0.060 0.057
01:41:44.98	29952	304.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.962 0.969 0.962 0.971 0.964 0.969 0.966 0.969	-0.012 -0.008 -0.007 -0.006	0.057 0.060 0.059 0.060
01:41:45.98	29984	304.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.960 0.971 0.960 0.978 0.978 0.969 0.966 0.969	-0.009 -0.010 -0.010 -0.014	0.059 0.060 0.057 0.061
01:41:46.98	30016	304.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.969 0.969 0.966 0.966 0.978 0.966 0.973 0.973	-0.008 -0.013 -0.011 -0.012	0.061 0.059 0.060 0.060
01:41:47.98	30048	304.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.962 0.966 0.976 0.966 0.971 0.966 0.960 0.966	-0.010 -0.015 -0.012 -0.006	0.058 0.059 0.059 0.058
01:41:48.98	30048	304.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.971 0.953 0.962 0.964 0.964 0.971 0.966 0.966	-0.008 -0.009 -0.004 -0.008	0.057 0.057 0.058 0.059
01:41:49.98	30080	304.0	3.69	-10.55 -10.55	-0.18	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.964 0.969 0.971 0.964 0.969 0.971 0.964 0.978	-0.011 -0.013 -0.015 -0.008	0.059 0.057 0.059 0.059

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01:41:50.98	30080	304.0	3.69	-10.55 -10.55	-0.35	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.58	1.05	2.11	3.34		norm	no	no	0.966 0.966 0.985 0.976 0.969 0.969 0.969 0.962	-0.011 -0.007 -0.001 -0.007	0.064 0.059 0.060 0.062
01:41:51.98	30112	304.0	3.69	-10.55 -10.55	-0.35	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.964 0.971 0.971 0.955 0.973 0.971 0.971 0.964	-0.010 -0.009 -0.014 -0.019	0.058 0.059 0.056 0.058
01:41:52.98	30144	304.0	3.69	-10.55 -10.55	-0.35	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34	norm		no	no	0.960 0.969 0.971 0.969 0.971 0.969 0.971 0.964	-0.015 -0.011 -0.014 -0.013	0.059 0.057 0.057 0.057
01:41:53.98	30144	304.0	3.69	-10.55 -10.55	-0.35	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.973 0.971 0.978 0.973 0.971 0.976 0.976 0.978	-0.013 -0.010 -0.004 -0.009	0.057 0.056 0.055 0.057
01:41:54.98	30176	304.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34		norm	no	no	0.976 0.973 0.973 0.960 0.973 0.973 0.973 0.962	-0.006 -0.006 -0.014 -0.007	0.059 0.055 0.058 0.058
01:41:55.98	30208	303.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34			no	no	0.971 0.980 0.978 0.980 0.971 0.964 0.978 0.989	-0.006 -0.005 -0.007 -0.006	0.059 0.060 0.058 0.059
01:41:56.98	30208	303.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.976 0.980 0.978 0.969 0.973 0.973 0.973 0.987	-0.011 -0.011 -0.005 -0.011	0.059 0.060 0.059 0.060
01:41:57.98	30240	303.0	3.87	-10.55 -10.55	-0.18	78.75	eng	71.89	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.985 0.973 0.985 0.976 0.976 0.978 0.971 0.971	-0.004 -0.009 -0.011 -0.013	0.059 0.059 0.059 0.058
01:41:58.98	30272	303.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34		norm	no	no	0.969 0.960 0.978 0.973 0.960 0.978 0.978 0.976	-0.014 -0.015 -0.014 -0.010	0.054 0.057 0.057 0.060
01:41:59.98	30272	303.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.973 0.978 0.976 0.971 0.964 0.976 0.992 0.976	-0.011 -0.010 -0.009 -0.009	0.060 0.058 0.059 0.056

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01:42:00.98	30304	303.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.960 0.971 0.962 0.978 0.971 0.971 0.998 0.978	-0.008 -0.007 -0.004 -0.009	0.054 0.057 0.060 0.057
01:42:01.98	30336	302.0	3.87	-10.20 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.971 0.971 0.973 0.978 0.969 0.973 0.957 0.978	-0.007 -0.006 -0.011 -0.011	0.062 0.059 0.058 0.061
01:42:02.98	30336	302.0	3.87	-10.55 -10.55	-0.18	79.98	eng	71.89	71.28	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.964 0.969 0.969 0.973 0.962 0.964 0.955 0.973	-0.014 -0.010 -0.008 -0.005	0.059 0.057 0.059 0.060
01:42:03.98	30368	302.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.62	1.62	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.964 0.960 0.957 0.962 0.950 0.964 0.960 0.962	-0.008 -0.013 -0.011 -0.013	0.060 0.060 0.061 0.058
01:42:04.98	30400	302.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.63	1.62	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.965 0.969 0.971 0.969 0.957 0.962 0.973 0.973	-0.015 -0.010 -0.009 -0.009	0.057 0.060 0.059 0.056
01:42:05.98	30400	302.0	3.87	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.62	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.964 0.960 0.969 0.971 0.964 0.962 0.960 0.964	-0.011 -0.013 -0.012 -0.009	0.057 0.058 0.056 0.055
01:42:06.98	30432	302.0	3.69	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.957 0.960 0.969 0.971 0.964 0.973 0.960 0.964	-0.013 -0.003 -0.005 -0.010	0.057 0.057 0.059 0.058
01:42:07.98	30464	301.0	3.69	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.962 0.964 0.962 0.960 0.960 0.960 0.960	-0.007 -0.011 -0.009 -0.009	0.058 0.059 0.057 0.059
01:42:08.98	30464	301.0	3.69	-10.55 -10.55	-0.18	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.955 0.962 0.960 0.960 0.978 0.957 0.950 0.962	-0.008 -0.010 -0.011 -0.010	0.056 0.060 0.059 0.061
01:42:09.98	30496	301.0	3.69	-10.20 -10.20	-0.35	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.960 0.969 0.960 0.964 0.969 0.969 0.964 0.973	-0.009 -0.009 -0.010 -0.013	0.060 0.056 0.060 0.058

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01:42:10.98	30528	301.0	3.69	-10.20 -10.20	-0.35	80.16	eng	71.89	71.32	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.971 0.976 0.971 0.969 0.962 0.971 0.964 0.973	-0.009 -0.007 -0.005 -0.007	0.057 0.058 0.059 0.060
01:42:11.98	30528	301.0	3.69	-10.20 -10.20	-0.35	80.16	eng	71.94	71.32	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.976 0.969 0.969 0.971 0.971 0.973 0.969 0.976	-0.012 -0.010 -0.011 -0.008	0.059 0.061 0.061 0.060
01:42:12.98	30560	301.0	3.69	-10.20 -10.20	-0.18	80.33	eng	71.94	71.32	Oper	0.70	0.53	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.971 0.969 0.976 0.960 0.971 0.978 0.978 0.978	-0.016 -0.013 -0.014 -0.011	0.059 0.059 0.059 0.059
01:42:13.98	30560	301.0	3.69	-10.20 -10.20	-0.18	80.33	eng	71.94	71.37	Oper	0.70	0.53	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.969 0.973 0.973 0.976 0.957 0.971 0.964 0.976	-0.012 -0.013 -0.009 -0.011	0.057 0.058 0.058 0.058
01:42:14.98	30592	301.0	3.69	-10.20 -10.20	0.00	80.33	eng	72.03	71.41	Oper	0.70	0.53	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.971 0.971 0.978 0.962 0.976 0.962 0.982 0.976	-0.007 -0.011 -0.009 -0.016	0.059 0.058 0.059 0.059
01:42:15.98	30592	300.0	3.69	-10.20 -10.20	0.00	80.33	eng	72.07	71.46	Oper	0.70	0.53	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.978 0.973 0.976 0.980 0.978 0.973 0.976 0.980	-0.008 -0.013 -0.016 -0.011	0.060 0.057 0.059 0.060
01:42:16.98	30624	300.0	3.69	-10.20 -10.20	0.00	80.33	eng	72.07	71.46	Oper	0.88	0.53	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.976 0.976 0.978 0.973 0.982 0.980 0.982 0.982	-0.013 -0.007 -0.012 -0.009	0.059 0.058 0.060 0.057
01:42:17.98	30656	300.0	3.69	-10.20 -10.20	0.00	80.33	eng	72.07	71.46	Oper	0.88	0.53	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.982 0.976 0.982 0.978 0.985 0.976 0.980 0.985	-0.013 -0.010 -0.011 -0.009	0.059 0.059 0.061 0.060
01:42:18.98	30656	300.0	3.87	-10.20 -10.20	0.00	80.33	eng	72.07	71.46	Oper	0.88	0.53	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.973 0.978 0.973 0.989 0.973 0.989 0.978 0.976	-0.006 -0.005 -0.009 -0.010	0.057 0.060 0.062 0.062
01:42:19.98	30688	300.0	3.87	-10.20 -10.20	0.18	80.33	eng	72.11	71.50	Oper	0.88	0.53	1.63	1.63	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.978 0.978 0.980 0.985 0.982 0.987 0.980 0.996	-0.009 -0.006 -0.009 -0.008	0.059 0.057 0.060 0.059

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01:42:20.98	30720	300.0	3.87	-10.20 -10.20	0.18	80.33	eng	72.16	71.59	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.76	1.23	2.11	3.34	norm		no	no	0.985 0.980 0.987 0.978 0.973 0.955 0.953 0.973	-0.012 -0.009 -0.009 -0.007	0.062 0.056 0.060 0.060
01:42:21.98	30720	300.0	3.87	-10.20 -10.20	0.18	80.33	eng	72.20	71.59	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.962 0.960 0.969 0.962 0.962 0.969 0.966 0.976	-0.008 -0.010 -0.010 -0.009	0.060 0.059 0.060 0.058
01:42:22.98	30752	300.0	3.87	-10.20 -10.20	0.00	80.33	eng	72.20	71.59	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.966 0.966 0.969 0.966 0.973 0.980 0.971 0.973	-0.010 -0.011 -0.009 -0.011	0.059 0.059 0.060 0.058
01:42:23.98	30784	300.0	3.87	-10.20 -10.20	0.00	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.973 0.973 0.978 0.971 0.969 0.976 0.973 0.976	-0.009 -0.011 -0.010 -0.010	0.057 0.057 0.059 0.060
01:42:24.98	30784	300.0	3.87	-10.20 -10.20	0.00	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.63	1.63	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.976 0.976 0.978 0.973 0.973 0.969 0.980 0.978 0.980	-0.011 -0.014 -0.014 -0.016	0.060 0.055 0.059 0.061
01:42:25.98	30816	300.0	3.87	-10.20 -10.20	0.00	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.63	1.64	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.966 0.969 0.976 0.973 0.982 0.957 0.969 0.973	-0.008 -0.009 -0.009 -0.010	0.059 0.057 0.056 0.056
01:42:26.98	30816	300.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.63	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.973 0.971 0.969 0.957 0.964 0.964 0.966 0.964	-0.013 -0.009 -0.009 -0.010	0.056 0.057 0.059 0.058
01:42:27.98	30848	300.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.964 0.969 0.962 0.964 0.962 0.976 0.966 0.973	-0.011 -0.008 -0.013 -0.012	0.057 0.058 0.058 0.057
01:42:28.98	30880	300.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.969 0.966 0.971 0.971 0.973 0.969 0.980 0.966	-0.009 -0.015 -0.012 -0.011	0.057 0.057 0.058 0.059
01:42:29.98	30880	300.0	3.87	-10.20 -10.20	-0.35	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.63	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.971 0.971 0.971 0.971 0.976 0.964 0.976 0.971	-0.009 -0.004 -0.009 -0.007	0.059 0.057 0.058 0.058

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01:42:30.98	30912	299.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.63	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.969 0.964 0.973 0.966 0.969 0.962 0.978	-0.008 -0.006 -0.005 -0.004	0.061 0.058 0.057 0.057
01:42:31.98	30944	299.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.969 0.969 0.971 0.964 0.966 0.971 0.962 0.969	-0.007 -0.019 -0.005 -0.015	0.059 0.059 0.059 0.059
01:42:32.98	30944	299.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.966 0.971 0.966 0.964 0.973 0.971 0.966 0.978	-0.015 -0.006 -0.008 -0.008	0.059 0.059 0.059 0.062
01:42:33.98	30976	299.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.966 0.964 0.971 0.971 0.966 0.966 0.962 0.973	-0.008 -0.011 -0.009 -0.010	0.056 0.057 0.059 0.061
01:42:34.98	31008	299.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.965 0.971 0.969 0.971 0.969 0.969 0.978 0.980	-0.006 -0.008 -0.017 -0.012	0.057 0.059 0.059 0.058
01:42:35.98	31008	299.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.976 0.973 0.973 0.969 0.969 0.973 0.982 0.978	-0.008 -0.007 -0.009 -0.008	0.060 0.060 0.057 0.061
01:42:36.98	31040	299.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.20	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.969 0.969 0.966 0.971 0.971 0.971 0.976 0.969	-0.009 -0.008 -0.007 -0.005	0.059 0.059 0.057 0.060
01:42:37.98	31040	298.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.978 0.969 0.971 0.987 0.973 0.978 0.973 0.966	-0.011 -0.011 -0.009 -0.013	0.063 0.059 0.059 0.059
01:42:38.98	31072	298.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.971 0.980 0.978 0.962 0.962 0.971 0.973 0.980	-0.009 -0.009 -0.010 -0.011	0.060 0.061 0.058 0.059
01:42:39.98	31104	298.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.985 0.971 0.973 0.964 0.969 0.973 0.985 0.982	-0.014 -0.010 -0.010 -0.013	0.059 0.059 0.059 0.059

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01:42:40.98	31104	298.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.964 0.973 0.992 0.973 0.973 0.976 0.978	-0.010 -0.011 -0.011 -0.017	0.059 0.059 0.060 0.058
01:42:41.98	31136	298.0	3.87	-10.20 -10.20	-0.18	80.16	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.973 0.971 0.978 0.980 0.982 0.980 0.978 0.985	-0.017 -0.010 -0.011 -0.010	0.055 0.059 0.060 0.059
01:42:42.98	31168	298.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.960 0.982 0.973 0.976 0.971 0.969 0.971 0.980	-0.012 -0.007 -0.009 -0.010	0.057 0.059 0.056 0.059
01:42:43.98	31168	297.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.973 0.980 0.998 0.971 0.971 0.973 0.973 0.982	-0.010 -0.011 -0.012 -0.012	0.059 0.059 0.056 0.058
01:42:44.98	31200	297.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.971 0.973 0.973 0.976 0.989 0.971 0.980 0.978	-0.013 -0.010 -0.012 -0.014	0.058 0.059 0.059 0.059
01:42:45.98	31232	297.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.20	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.978 0.989 0.971 0.976 0.976 0.980 0.976 0.980	-0.012 -0.015 -0.011 -0.006	0.057 0.059 0.061 0.059
01:42:46.98	31232	297.0	3.87	-10.20 -10.20	-0.18	80.33	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.973 0.973 0.976 0.982 0.976 0.982 0.973 0.973	-0.010 -0.006 -0.009 -0.006	0.059 0.060 0.060 0.061
01:42:47.98	31264	297.0	3.87	-10.20 -10.20	0.00	80.16	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.978 0.985 0.973 0.980 0.964 0.973 0.987 0.976	-0.007 -0.013 -0.007 -0.010	0.060 0.059 0.061 0.059
01:42:48.98	31264	297.0	3.87	-10.20 -10.20	0.00	80.16	eng	72.20	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.976 0.989 0.978 0.978 0.973 0.973 0.976 0.982	-0.015 -0.015 -0.009 -0.007	0.060 0.060 0.057 0.059
01:42:49.98	31296	297.0	3.87	-10.20 -10.20	0.00	80.16	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.982 0.973 0.976 0.976 0.976 0.978 0.973 0.978	-0.009 -0.013 -0.011 -0.014	0.060 0.057 0.059 0.057

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:42:50.98	31328	297.0	3.87	-10.20 -10.20	0.00	80.16	eng	72.25	71.63	Oper	0.70	0.35	1.64	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.971 0.973 0.960 0.976 0.976 0.985 0.980 0.980	-0.009 -0.012 -0.014 -0.009	0.057 0.061 0.056 0.057
01:42:51.98	31328	297.0	3.87	-10.20 -10.20	0.00	80.16	eng	72.29	71.67	Oper	0.70	0.35	1.64	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.973 0.982 0.964 0.978 0.969 0.971 0.992 0.982	-0.014 -0.013 -0.008 -0.008	0.059 0.057 0.055 0.061
01:42:52.98	31360	297.0	3.87	-10.20 -10.20	0.00	80.16	eng	72.29	71.67	Oper	0.70	0.35	1.64	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.971 0.973 0.973 0.976 0.973 0.973 0.964 0.976	-0.014 -0.015 -0.010 -0.009	0.060 0.057 0.059 0.057
01:42:53.98	31392	297.0	3.87	-10.20 -10.20	-0.18	80.16	eng	72.33	71.67	Oper	0.70	0.35	1.64	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.969 0.957 0.962 0.971 0.962 0.973 0.962 0.976	-0.012 -0.010 -0.012 -0.011	0.057 0.058 0.057 0.056
01:42:54.98	31392	297.0	3.87	-10.20 -10.20	-0.18	80.16	eng	72.33	71.72	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.964 0.973 0.980 0.980 0.969 0.976 0.978 0.976	-0.013 -0.014 -0.013 -0.007	0.057 0.058 0.057 0.057
01:42:55.98	31424	297.0	3.87	-10.20 -10.20	-0.18	80.16	eng	72.38	71.76	Oper	0.70	0.35	1.65	1.64	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.973 0.989 0.971 0.985 0.982 0.973 0.978 0.980	-0.017 -0.009 -0.008 -0.010	0.057 0.058 0.057 0.058
01:42:56.98	31456	296.0	3.87	-10.20 -10.20	-0.18	80.16	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.978 0.976 0.980 0.976 0.978 0.980 0.980 0.971	-0.010 -0.011 -0.007 -0.006	0.057 0.059 0.055 0.056
01:42:57.98	31456	296.0	3.87	-10.20 -10.20	0.00	80.16	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.973 0.971 0.971 0.971 0.976 0.980 0.980 0.982	-0.013 -0.013 -0.009 -0.011	0.056 0.055 0.059 0.058
01:42:58.98	31488	296.0	4.04	-10.20 -10.20	0.00	80.16	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.980 0.994 0.973 0.978 0.962 0.978 0.987 0.973	-0.009 -0.015 -0.009 -0.010	0.055 0.057 0.061 0.056
01:42:59.98	31520	296.0	4.04	-10.20 -10.20	0.00	80.16	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.969 0.978 0.976 0.982 0.973 0.976 0.978 0.969	-0.010 -0.010 -0.009 -0.010	0.057 0.054 0.058 0.060

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01:43:00.98	31520	296.0	4.04	-10.20 -10.20	-0.18	80.16	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.971 0.973 0.960 0.964 0.978 0.978 0.966 0.980	-0.011 -0.012 -0.014 -0.016	0.056 0.057 0.055 0.057
01:43:01.98	31552	296.0	4.04	-10.20 -10.20	-0.18	80.16	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.969 0.957 0.976 0.978 0.978 0.969 0.978 0.976	-0.010 -0.010 -0.014 -0.012	0.056 0.059 0.056 0.055
01:43:02.98	31584	296.0	4.04	-10.20 -10.20	-0.18	80.16	eng	72.47	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.969 0.973 0.969 0.971 0.969 0.973 0.971 0.969	-0.008 -0.009 -0.013 -0.008	0.057 0.056 0.056 0.055
01:43:03.98	31584	295.0	4.04	-10.20 -10.20	-0.18	80.16	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.964 0.973 0.969 0.971 0.971 0.966 0.971 0.973	-0.007 -0.010 -0.004 -0.012	0.058 0.057 0.059 0.058
01:43:04.98	31616	295.0	4.04	-10.20 -10.20	0.00	80.16	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.978 0.966 0.973 0.960 0.966 0.969 0.980 0.957	-0.013 -0.008 -0.008 -0.009	0.060 0.058 0.057 0.059
01:43:05.98	31648	295.0	4.04	-10.20 -10.20	0.18	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.969 0.960 0.955 0.966 0.960 0.966 0.960 0.962	-0.010 -0.012 -0.011 -0.014	0.057 0.059 0.058 0.056
01:43:06.98	31648	295.0	4.04	-10.20 -10.20	0.35	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.964 0.957 0.966 0.966 0.964 0.960 0.971 0.962	-0.008 -0.014 -0.008 -0.010	0.059 0.059 0.058 0.056
01:43:07.98	31680	295.0	4.04	-10.20 -10.20	0.35	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34			no	no	0.962 0.964 0.957 0.976 0.960 0.969 0.964 0.962	-0.013 -0.016 -0.014 -0.011	0.060 0.057 0.059 0.058
01:43:08.98	31712	294.0	4.04	-10.20 -10.20	0.18	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.76	1.05	2.11	3.34	norm		no	no	0.964 0.964 0.953 0.960 0.957 0.960 0.966 0.962	-0.007 -0.017 -0.014 -0.011	0.059 0.057 0.060 0.059
01:43:09.98	31712	294.0	3.87	-10.20 -10.20	0.00	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.05	2.11	3.34			no	no	0.957 0.962 0.964 0.966 0.953 0.966 0.966 0.962	-0.010 -0.011 -0.014 -0.010	0.059 0.057 0.057 0.057

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01:43:10.98	31744	294.0	3.87	-10.20 -10.20	-0.18	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.05	1.93	3.34		norm	no	no	0.971 0.950 0.964 0.964 0.966 0.955 0.966	-0.015 -0.011 -0.011 -0.011 -0.011	0.055 0.057 0.059 0.058
01:43:11.98	31744	294.0	3.87	-10.20 -10.20	-0.18	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.962 0.971 0.971 0.964 0.962 0.966 0.964 0.957	-0.010 -0.012 -0.008 -0.014	0.060 0.057 0.060 0.057
01:43:12.98	31776	294.0	3.87	-10.20 -10.20	-0.18	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.964 0.966 0.966 0.957 0.966 0.966 0.964 0.971	-0.014 -0.015 -0.013 -0.008	0.059 0.057 0.055 0.060
01:43:13.98	31808	294.0	3.87	-10.20 -10.20	-0.18	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.971 0.966 0.969 0.971 0.966 0.966 0.969 0.971	-0.011 -0.010 -0.011 -0.009	0.058 0.058 0.057 0.060
01:43:14.98	31808	294.0	3.87	-10.20 -10.20	-0.18	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.966 0.964 0.966 0.973 0.964 0.973 0.971 0.976	-0.011 -0.007 -0.016 -0.008	0.060 0.059 0.059 0.059
01:43:15.98	31840	294.0	3.87	-10.20 -10.20	-0.18	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.65	1.65	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.971 0.973 0.976 0.971 0.969 0.957 0.976 0.976	-0.015 -0.014 -0.012 -0.006	0.059 0.058 0.061 0.057
01:43:16.98	31840	293.0	3.87	-10.20 -10.20	-0.18	79.98	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34	norm		no	no	0.971 0.957 0.971 0.973 0.969 0.971 0.971 0.971	-0.007 -0.009 -0.011 -0.012	0.057 0.059 0.059 0.057
01:43:17.98	31872	293.0	3.87	-10.20 -10.20	0.00	79.80	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.976 0.964 0.971 0.966 0.964 0.969 0.976 0.978	-0.016 -0.016 -0.014 -0.014	0.058 0.059 0.059 0.058
01:43:18.98	31904	293.0	3.87	-10.20 -10.20	0.00	79.80	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34		norm	no	no	0.969 0.964 0.973 0.962 0.971 0.971 0.969 0.976	-0.014 -0.010 -0.010 -0.011	0.059 0.057 0.060 0.059
01:43:19.98	31904	293.0	3.87	-10.20 -10.20	-0.18	79.80	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.23	2.11	3.34			no	no	0.969 0.966 0.978 0.973 0.980 0.973 0.973 0.985	-0.009 -0.013 -0.007 -0.008	0.059 0.062 0.060 0.061

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01:43:20.98	31936	293.0	3.87	-9.84 -10.20	0.00	79.80	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.962 0.969 0.969 0.960 0.964 0.973 0.971 0.969	-0.010 -0.011 -0.010 -0.007	0.061 0.061 0.060 0.060
01:43:21.98	31936	292.0	3.87	-9.84 -10.20	0.18	79.80	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.76	1.05	1.93	3.34			no	no	0.969 0.973 0.966 0.969 0.944 0.971 0.960 0.973	-0.008 -0.008 -0.009 -0.013	0.058 0.062 0.058 0.060
01:43:22.98	31968	292.0	3.87	-9.84 -9.84	0.18	79.63	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.76	1.05	1.93	3.34	norm		no	no	0.957 0.964 0.966 0.964 0.966 0.966 0.971 0.962	-0.010 -0.009 -0.005 -0.003	0.059 0.058 0.060 0.059
01:43:23.98	32000	291.0	3.87	-9.84 -9.84	0.00	79.63	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.76	1.05	1.93	3.34			no	no	0.964 0.962 0.962 0.960 0.962 0.964 0.964 0.966	-0.008 -0.006 -0.010 -0.011	0.060 0.061 0.059 0.060
01:43:24.98	32000	291.0	3.87	-9.84 -10.20	-0.18	79.63	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.05	1.93	3.34	norm		no	no	0.955 0.957 0.950 0.957 0.955 0.950 0.955 0.960	-0.010 -0.010 -0.008 -0.007	0.062 0.060 0.059 0.059
01:43:25.98	32032	291.0	3.87	-9.84 -9.84	-0.18	79.63	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.950 0.955 0.955 0.955 0.957 0.955 0.962 0.957 0.957	-0.009 -0.006 -0.008 -0.005	0.059 0.059 0.058 0.059
01:43:26.98	32032	291.0	3.87	-9.84 -9.84	-0.35	79.63	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.960 0.962 0.957 0.964 0.964 0.960 0.960 0.957	-0.011 -0.016 -0.013 -0.009	0.059 0.059 0.059 0.059
01:43:27.98	32064	291.0	3.87	-9.84 -9.84	-0.35	79.63	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.960 0.976 0.962 0.957 0.962 0.964 0.955 0.957	-0.009 -0.008 -0.009 -0.007	0.060 0.059 0.059 0.061
01:43:28.98	32064	290.0	3.87	-9.84 -9.84	-0.53	79.63	eng	72.42	71.81	Oper	0.70	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.966 0.960 0.971 0.953 0.944 0.950 0.960 0.964	-0.013 -0.009 -0.009 -0.010	0.061 0.060 0.058 0.061
01:43:29.98	32096	289.0	3.87	-9.84 -9.84	-0.35	79.45	eng	72.42	71.81	Oper	0.88	0.35	1.66	1.66	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.962 0.953 0.955 0.957 0.960 0.955 0.962 0.960	-0.013 -0.010 -0.015 -0.011	0.061 0.060 0.060 0.059

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01:43:30.98	32096	289.0	3.69	-9.84 -9.84	0.00	79.45	eng	72.33	71.76	Oper	0.88	0.53	1.66	1.67	Eng Run	Eng Run	3.9	1.76	1.05	1.93	3.34		norm	no	no	0.955 0.948 0.957 0.964 0.962 0.960 0.957 0.957	-0.010 -0.009 -0.006 -0.010	0.061 0.063 0.061 0.061
01:43:31.98	32128	289.0	3.69	-9.84 -9.84	0.00	79.45	eng	72.33	71.76	Oper	0.88	0.53	1.67	1.67	Eng Run	Eng Run	3.9	1.76	1.05	1.93	3.34			no	no	0.964 0.964 0.960 0.955 0.966 0.955 0.957 0.957	-0.012 -0.013 -0.009 -0.016	0.063 0.061 0.062 0.061
01:43:32.98	32128	289.0	3.69	-9.84 -9.84	0.00	79.45	eng	72.38	71.76	Oper	0.88	0.53	1.67	1.67	Eng Run	Eng Run	3.9	1.76	1.05	1.93	3.34	norm		no	no	0.955 0.960 0.962 0.966 0.957 0.962 0.960 0.950	-0.010 -0.012 -0.011 -0.011	0.062 0.062 0.059 0.062
01:43:33.98	32160	289.0	3.69	-9.84 -9.84	0.00	79.45	eng	72.38	71.76	Oper	0.88	0.53	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.05	1.93	3.34			no	no	0.960 0.969 0.960 0.964 0.957 0.962 0.969 0.964	-0.008 -0.012 -0.010 -0.008	0.061 0.061 0.060 0.062
01:43:34.98	32160	289.0	3.69	-9.84 -9.84	-0.18	79.45	eng	72.33	71.76	Oper	0.88	0.53	1.66	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.964 0.960 0.962 0.960 0.971 0.964 0.964 0.971	-0.009 -0.010 -0.010 -0.011	0.061 0.061 0.062 0.060
01:43:35.98	32192	289.0	3.69	-9.84 -9.84	-0.35	79.45	eng	72.33	71.76	Oper	0.88	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.978 0.976 0.973 0.980 0.976 0.964 0.985 0.973	-0.015 -0.010 -0.014 -0.011	0.062 0.062 0.064 0.061
01:43:36.98	32192	289.0	3.69	-9.84 -9.84	-0.35	79.45	eng	72.38	71.76	Oper	0.70	0.18	1.66	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.960 0.971 0.962 0.960 0.948 0.955 0.948 0.960	-0.010 -0.011 -0.008 -0.008	0.059 0.061 0.060 0.062
01:43:37.98	32224	289.0	3.69	-9.84 -9.84	-0.35	79.45	eng	72.38	71.76	Oper	0.53	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.939 0.955 0.964 0.960 0.950 0.960 0.960 0.955	-0.012 -0.012 -0.016 -0.013	0.060 0.061 0.062 0.062
01:43:38.98	32224	289.0	3.69	-9.84 -9.84	-0.35	79.45	eng	72.38	71.81	Oper	0.53	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.953 0.969 0.964 0.962 0.964 0.969 0.962 0.971	-0.014 -0.009 -0.013 -0.013	0.060 0.059 0.058 0.061
01:43:39.98	32256	289.0	3.52	-9.84 -9.84	-0.18	79.45	eng	72.38	71.76	Oper	0.53	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.964 0.960 0.962 0.969 0.962 0.955 0.971 0.973	-0.014 -0.008 -0.008 -0.009	0.060 0.062 0.059 0.060

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:43:40.98	32256	289.0	3.52	-9.84 -9.84	-0.18	79.45	eng	72.38	71.76	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.964 0.980 0.969 0.971 0.969 0.976 0.976	-0.010 -0.011 -0.009 -0.007	0.061 0.059 0.060 0.061
01:43:41.98	32256	289.0	3.69	-9.84 -9.84	-0.18	79.45	eng	72.38	71.76	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.971 0.980 0.978 0.980 0.964 0.969 0.976 0.976	-0.006 -0.012 -0.010 -0.005	0.060 0.059 0.061 0.061
01:43:42.98	32288	289.0	3.69	-9.84 -9.84	-0.18	79.45	eng	72.38	71.76	Oper	0.70	0.35	1.66	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.978 0.987 0.992 0.980 0.978 0.985 0.980 0.978	-0.008 -0.014 -0.010 -0.008	0.059 0.062 0.060 0.061
01:43:43.98	32288	289.0	3.69	-9.84 -9.84	-0.18	79.45	eng	72.47	71.85	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34			no	no	0.985 0.982 0.982 0.989 0.985 0.985 0.982 0.980	-0.011 -0.010 -0.017 -0.010	0.061 0.060 0.060 0.060
01:43:44.98	32320	289.0	3.69	-9.84 -9.84	-0.18	79.45	eng	72.51	71.94	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.982 0.971 0.985 0.985 0.987 0.982 0.985 0.985	-0.011 -0.009 -0.012 -0.012	0.064 0.063 0.061 0.061
01:43:45.98	32320	289.0	3.69	-9.84 -9.84	0.00	79.45	eng	72.60	72.03	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.982 0.987 0.985 0.996 0.982 0.989 0.985 0.987	-0.009 -0.009 -0.010 -0.008	0.061 0.061 0.061 0.061
01:43:46.98	32352	289.0	3.69	-9.84 -9.84	0.00	79.45	eng	72.69	72.07	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.985 0.976 0.985 0.978 0.987 0.980 0.982 0.980	-0.008 -0.016 -0.009 -0.010	0.061 0.061 0.060 0.060
01:43:47.98	32352	289.0	3.87	-9.84 -9.84	0.18	79.28	eng	72.73	72.11	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.982 0.985 0.985 0.973 0.980 0.966 0.978 0.976	-0.009 -0.011 -0.009 -0.007	0.058 0.062 0.063 0.062
01:43:48.98	32384	289.0	3.87	-9.84 -9.84	0.18	79.28	eng	72.73	72.11	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.76	1.23	1.93	3.34	norm		no	no	0.976 0.966 0.966 0.962 0.976 0.976 0.964 0.969	-0.013 -0.015 -0.009 -0.008	0.062 0.062 0.064 0.059
01:43:49.98	32384	288.0	3.87	-9.84 -9.84	0.18	79.28	eng	72.73	72.11	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.76	1.05	1.93	3.34			no	no	0.964 0.969 0.971 0.957 0.969 0.969 0.966 0.969	-0.010 -0.013 -0.013 -0.006	0.060 0.061 0.061 0.060

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01:43:50.98	32416	288.0	3.87	-9.84 -9.84	0.18	79.28	eng	72.73	72.11	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.05	1.93	3.34		norm	no	no	0.976 0.973 0.978 0.966 0.966 0.971 0.964 0.966	-0.013 -0.010 -0.006 -0.009	0.059 0.061 0.059 0.062
01:43:51.98	32416	288.0	3.87	-9.84 -9.84	0.18	79.28	eng	72.77	72.16	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.964 0.964 0.964 0.966 0.964 0.966 0.969 0.966	-0.010 -0.008 -0.008 -0.013	0.060 0.059 0.060 0.062
01:43:52.98	32416	288.0	3.69	-9.84 -9.84	0.00	79.45	eng	72.82	72.25	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.966 0.973 0.969 0.964 0.964 0.969 0.964 0.971	-0.011 -0.010 -0.012 -0.009	0.059 0.061 0.057 0.060
01:43:53.98	32448	288.0	3.69	-9.84 -9.84	0.00	79.28	eng	72.86	72.25	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.973 0.966 0.969 0.966 0.964 0.964 0.969 0.964	-0.008 -0.012 -0.010 -0.010	0.060 0.060 0.060 0.061
01:43:54.98	32448	288.0	3.69	-9.84 -9.84	0.00	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34		norm	no	no	0.966 0.962 0.985 0.966 0.964 0.971 0.966 0.969	-0.010 -0.010 -0.005 -0.011	0.061 0.060 0.060 0.059
01:43:55.98	32480	288.0	3.69	-9.84 -9.84	0.00	79.45	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.982 0.976 0.964 0.973 0.969 0.978 0.973 0.971	-0.013 -0.006 -0.006 -0.009	0.056 0.060 0.060 0.060
01:43:56.98	32480	288.0	3.69	-9.84 -9.84	-0.18	79.45	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.964 0.971 0.976 0.971 0.985 0.973 0.976 0.980	-0.013 -0.007 -0.007 -0.009	0.060 0.059 0.061 0.060
01:43:57.98	32512	288.0	3.69	-9.84 -9.84	-0.18	79.45	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.964 0.971 0.969 0.989 0.969 0.976 0.973 0.980	-0.009 -0.010 -0.010 -0.013	0.059 0.060 0.060 0.060
01:43:58.98	32512	288.0	3.69	-9.84 -9.84	0.00	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34		norm	no	no	0.971 0.980 0.971 0.987 0.971 0.976 0.980 0.980	-0.008 -0.007 -0.009 -0.011	0.060 0.058 0.059 0.059
01:43:59.98	32544	287.0	3.69	-9.84 -9.84	0.00	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.971 0.982 0.978 0.973 0.978 0.976 0.989 0.982	-0.004 -0.013 -0.016 -0.008	0.057 0.059 0.062 0.058

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01:44:00.98	32544	287.0	3.69	-9.84 -9.84	0.00	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.973 0.971 0.973 0.973 0.980 0.980 0.978 0.985	-0.009 -0.010 -0.009 -0.012	0.060 0.059 0.060 0.060
01:44:01.98	32576	287.0	3.69	-9.84 -9.84	0.00	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.971 0.971 0.976 0.971 0.976 0.971 0.973 0.978	-0.011 -0.006 -0.010 -0.005	0.059 0.061 0.060 0.062
01:44:02.98	32576	287.0	3.69	-9.84 -9.84	0.00	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.962 0.969 0.976 0.973 0.978 0.978 0.973 0.973	-0.013 -0.007 -0.006 -0.012	0.059 0.059 0.060 0.062
01:44:03.98	32608	287.0	3.69	-9.84 -9.84	-0.18	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.971 0.973 0.964 0.960 0.976 0.950 0.973 0.980	-0.009 -0.010 -0.014 -0.009	0.059 0.060 0.059 0.059
01:44:04.98	32608	287.0	3.69	-9.84 -9.84	-0.18	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.971 0.971 0.973 0.971 0.976 0.976 0.976 0.980	-0.006 -0.012 -0.008 -0.006	0.059 0.060 0.061 0.061
01:44:05.98	32608	287.0	3.87	-9.84 -9.84	-0.18	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.971 0.962 0.971 0.978 0.978 0.982 0.976 0.976	-0.010 -0.013 -0.013 -0.013 -0.013	0.059 0.059 0.062 0.060
01:44:06.98	32640	287.0	3.87	-9.84 -9.84	0.00	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.976 0.971 0.971 0.973 0.969 0.976 0.973 0.971	-0.014 -0.009 -0.013 -0.013	0.060 0.060 0.061 0.061
01:44:07.98	32640	287.0	3.87	-9.84 -9.84	0.00	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.960 0.964 0.966 0.966 0.969 0.976 0.976 0.976 0.973	-0.013 -0.011 -0.008 -0.007	0.063 0.060 0.060 0.059
01:44:08.98	32672	287.0	3.87	-9.84 -9.84	0.18	79.28	eng	72.91	72.29	Oper	0.70	0.35	1.68	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.969 0.971 0.978 0.980 0.971 0.962 0.964 0.969	-0.011 -0.008 -0.011 -0.011	0.060 0.061 0.061 0.059
01:44:09.98	32672	287.0	3.87	-9.84 -9.84	0.18	79.28	eng	72.95	72.33	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.964 0.973 0.966 0.969 0.966 0.971 0.964 0.964	-0.009 -0.009 -0.006 -0.008	0.061 0.059 0.059 0.060

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01:44:10.98	32704	286.0	3.87	-9.84 -9.84	0.00	79.28	eng	72.95	72.33	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34		norm	no	no	0.969 0.973 0.960 0.964 0.973 0.964 0.969 0.969	-0.009 -0.011 -0.015 -0.005	0.058 0.060 0.059 0.059
01:44:11.98	32704	286.0	3.87	-9.84 -9.84	0.00	79.28	eng	72.95	72.33	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.964 0.971 0.966 0.964 0.969 0.969 0.966 0.964	-0.010 -0.010 -0.010 -0.010	0.057 0.060 0.060 0.060
01:44:12.98	32736	286.0	3.87	-9.84 -9.84	0.00	79.28	eng	72.99	72.42	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.971 0.973 0.973 0.969 0.964 0.969 0.971 0.978	-0.012 -0.011 -0.013 -0.013 -0.013	0.059 0.059 0.061 0.060 0.060
01:44:13.98	32736	286.0	3.87	-9.84 -9.49	0.00	79.28	eng	73.08	72.47	Oper	0.70	0.35	1.67	1.67	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.966 0.964 0.966 0.966 0.973 0.966 0.966 0.971	-0.010 -0.010 -0.009 -0.011	0.063 0.060 0.061 0.059
01:44:14.98	32768	286.0	3.87	-9.84 -9.84	0.00	79.28	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.973 0.969 0.964 0.969 0.966 0.976 0.969 0.978	-0.009 -0.010 -0.008 -0.010	0.062 0.061 0.060 0.060
01:44:15.98	32768	286.0	3.87	-9.49 -9.84	0.00	79.28	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.966 0.966 0.971 0.966 0.976 0.980 0.960 0.969	-0.006 -0.009 -0.011 -0.008	0.060 0.059 0.060 0.059
01:44:16.98	32800	286.0	3.87	-9.49 -9.49	0.00	79.28	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.966 0.966 0.969 0.971 0.966 0.955 0.969 0.978	-0.011 -0.009 -0.011 -0.009	0.059 0.059 0.059 0.059
01:44:17.98	32800	286.0	3.87	-9.49 -9.49	0.00	79.45	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.964 0.969 0.969 0.971 0.962 0.976 0.978 0.962	-0.013 -0.013 -0.014 -0.015	0.059 0.059 0.060 0.060
01:44:18.98	32832	286.0	3.87	-9.49 -9.49	0.00	79.45	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.982 0.978 0.973 0.982 0.976 0.962 0.980 0.980	-0.017 -0.011 -0.010 -0.020	0.059 0.061 0.059 0.059
01:44:19.98	32832	285.0	3.87	-9.49 -9.49	0.00	79.45	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.969 0.971 0.969 0.973 0.960 0.971 0.964 0.973	-0.012 -0.012 -0.010 -0.015	0.059 0.060 0.063 0.060

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:44:20.98	32832	285.0	3.87	-9.49 -9.49	-0.18	79.45	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34	norm		no	no	0.971 0.969 0.980 0.978 0.969 0.973 0.971 0.976	-0.007 -0.014 -0.010 -0.007	0.057 0.060 0.059 0.061
01:44:21.98	32864	285.0	3.87	-9.49 -9.49	-0.18	79.45	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34			no	no	0.971 0.973 0.976 0.973 0.978 0.978 0.976 0.976	-0.009 -0.009 -0.010 -0.004	0.059 0.059 0.059 0.057
01:44:22.98	32864	285.0	3.87	-9.49 -9.49	0.00	79.45	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.973 0.982 0.962 0.971 0.976 0.973 0.978 0.985	-0.009 -0.010 -0.013 -0.013	0.059 0.058 0.059 0.059
01:44:23.98	32896	285.0	3.87	-9.49 -9.49	0.00	79.45	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34			no	no	0.978 0.971 0.978 0.964 0.973 0.976 0.971 0.976	-0.009 -0.007 -0.014 -0.018	0.059 0.060 0.059 0.060
01:44:24.98	32896	285.0	3.87	-9.49 -9.49	0.00	79.45	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34	norm		no	no	0.969 0.969 0.969 0.976 0.973 0.969 0.982	-0.014 -0.012 -0.014 -0.012	0.059 0.061 0.057 0.065
01:44:25.98	32928	285.0	3.87	-9.49 -9.49	0.00	79.45	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34			no	no	0.982 0.978 0.980 0.980 0.960 0.978 0.982 0.980	-0.014 -0.009 -0.009 -0.012	0.060 0.059 0.060 0.059
01:44:26.98	32928	285.0	3.87	-9.49 -9.49	0.00	79.45	eng	73.08	72.47	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34	norm		no	no	0.976 0.976 0.969 0.976 0.957 0.971 0.978 0.971	-0.012 -0.011 -0.008 -0.013	0.059 0.060 0.061 0.059
01:44:27.98	32960	285.0	3.87	-9.49 -9.84	0.00	79.45	eng	73.08	72.42	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.976 0.957 0.971 0.962 0.955 0.955 0.955 0.957	-0.008 -0.016 -0.005 -0.011	0.062 0.059 0.062 0.057
01:44:28.98	32960	285.0	3.69	-9.84 -9.84	0.00	79.45	eng	72.29	71.46	Oper	0.70	0.35	1.68	1.68	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34	norm		no	no	0.953 0.955 0.953 0.937 0.934 0.944 0.934 0.934	-0.010 -0.008 -0.014 -0.011	0.059 0.058 0.058 0.056
01:44:29.98	32992	285.0	3.69	-9.84 -9.84	0.00	79.45	eng	71.19	70.22	Oper	0.70	0.18	1.68	1.68	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34			no	no	0.927 0.918 0.921 0.925 0.918 0.925 0.918 0.923	-0.010 -0.013 -0.008 -0.011	0.056 0.057 0.057 0.055

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:44:30.98	32992	285.0	3.34	-9.84 -10.20	0.18	79.45	eng	70.09	69.39	Oper	0.53	0.00	1.67	1.66	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34		norm	no	no	0.914 0.927 0.918 0.916 0.909 0.907 0.914 0.914	-0.010 -0.015 -0.010 -0.012	0.055 0.054 0.056 0.055
01:44:31.98	32992	285.0	3.16	-10.20 -10.20	0.00	79.45	eng	68.99	68.03	Oper	0.53	-0.18	1.66	1.64	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.909 0.914 0.907 0.898 0.895 0.900 0.898 0.898	-0.009 -0.012 -0.007 -0.014	0.052 0.054 0.052 0.054
01:44:32.98	33024	285.0	2.99	-10.20 -10.20	0.00	79.45	eng	67.54	66.53	Oper	0.53	-0.18	1.62	1.60	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.895 0.886 0.895 0.898 0.900 0.902 0.898 0.909	-0.010 -0.010 -0.014 -0.009	0.052 0.052 0.051 0.051
01:44:33.98	33024	285.0	2.81	-10.20 -10.20	0.18	79.45	eng	65.92	64.95	Oper	0.53	-0.18	1.58	1.56	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.895 0.893 0.898 0.900 0.891 0.898 0.909 0.914	-0.009 -0.011 -0.009 -0.017	0.050 0.049 0.051 0.050
01:44:34.98	33024	285.0	2.81	-10.20 -9.84	0.18	79.45	eng	64.34	63.54	Oper	0.53	0.18	1.54	1.52	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34		norm	no	no	0.918 0.905 0.918 0.921 0.911 0.921 0.918 0.918	-0.008 -0.009 -0.011 -0.010	0.049 0.048 0.049 0.048
01:44:35.98	33024	285.0	2.64	-9.84 -9.84	0.18	79.45	eng	63.02	62.23	Oper	0.70	0.35	1.49	1.48	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.923 0.914 0.927 0.930 0.932 0.934 0.948 0.948	-0.015 -0.010 -0.014 -0.010	0.048 0.048 0.048 0.048
01:44:36.98	33024	285.0	2.64	-9.84 -9.84	0.18	79.45	eng	62.01	61.26	Oper	0.70	0.35	1.46	1.45	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.934 0.939 0.946 0.946 0.948 0.960 0.948 0.953	-0.010 -0.010 -0.007 -0.008	0.048 0.048 0.047 0.046
01:44:37.98	33024	285.0	2.64	-9.84 -9.84	0.00	79.45	eng	61.22	60.60	Oper	0.70	0.35	1.43	1.42	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.948 0.946 0.953 0.960 0.957 0.964 0.960 0.962	-0.012 -0.011 -0.009 -0.011	0.046 0.047 0.045 0.045
01:44:38.98	33024	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	60.73	60.12	Oper	0.70	0.35	1.40	1.40	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.955 0.969 0.962 0.960 0.982 0.964 0.971 0.973	-0.006 -0.008 -0.011 -0.013	0.045 0.045 0.043 0.047
01:44:39.98	33024	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	60.29	59.81	Oper	0.70	0.35	1.39	1.38	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.973 0.962 0.969 0.966 0.962 0.969 0.971 0.966	-0.010 -0.011 -0.010 -0.003	0.041 0.046 0.044 0.041

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:44:40.98	33024	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	60.03	59.55	Oper	0.88	0.35	1.37	1.37	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.971 0.960 0.966 0.964 0.971 0.969 0.962 0.976	-0.011 -0.013 -0.013 -0.014	0.042 0.043 0.042 0.041
01:44:41.98	33024	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	59.81	59.33	Oper	0.88	0.35	1.37	1.36	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.960 0.969 0.969 0.973 0.971 0.971 0.971 0.980	-0.011 -0.011 -0.008 -0.011	0.042 0.043 0.042 0.040
01:44:42.98	33024	286.0	2.64	-9.49 -9.49	0.00	79.45	eng	59.63	59.15	Oper	0.88	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.969 0.973 0.973 0.966 0.978 0.969 0.966 0.971	-0.013 -0.009 -0.010 -0.010	0.041 0.040 0.041 0.044
01:44:43.98	33024	286.0	2.64	-9.49 -9.49	0.00	79.45	eng	59.55	59.06	Oper	0.88	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.973 0.976 0.982 0.996 0.982 0.971 0.982 0.980	-0.011 -0.010 -0.013 -0.007	0.043 0.043 0.042 0.043
01:44:44.98	33024	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	59.46	58.97	Oper	0.70	0.18	1.35	1.35	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.960 0.966 0.962 0.962 0.950 0.946 0.971 0.964	-0.016 -0.007 -0.007 -0.007	0.039 0.045 0.041 0.040
01:44:45.98	33024	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	59.33	58.80	Oper	0.70	0.18	1.34	1.34	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.966 0.976 0.964 0.966 0.962 0.966 0.971 0.971 0.971	-0.007 -0.013 -0.008 -0.011	0.039 0.041 0.039 0.043
01:44:46.98	33024	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	59.11	58.62	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.982 0.966 0.973 0.966 0.969 0.989 0.976 0.973	-0.010 -0.011 -0.012 -0.009	0.041 0.039 0.041 0.041
01:44:47.98	33024	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	58.93	58.45	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34			no	no	0.978 0.971 0.976 0.971 0.973 0.971 0.971 0.976	-0.013 -0.009 -0.010 -0.010 -0.010	0.040 0.038 0.041 0.042
01:44:48.98	33024	286.0	2.64	-9.49 -9.49	0.00	79.45	eng	58.80	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.973 0.973 0.976 0.976 0.976 0.976 0.973 0.982	-0.011 -0.010 -0.014 -0.012	0.039 0.041 0.042 0.041
01:44:49.98	33024	286.0	2.64	-9.84 -9.49	0.00	79.45	eng	58.71	58.23	Oper	0.70	0.35	1.33	1.32	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.960 0.962 0.971 0.971 0.980 0.978 0.973 0.980	-0.013 -0.006 -0.010 -0.008	0.042 0.042 0.038 0.040

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01:44:50.98	32992	286.0	2.64	-9.84 -9.49	0.00	79.45	eng	58.58	58.14	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34		norm	no	no	0.976 0.973 0.973 0.957 0.971 0.976 0.980 0.973	-0.008 -0.009 -0.011 -0.010	0.042 0.038 0.040
01:44:51.98	32992	286.0	2.64	-9.49 -9.84	0.00	79.45	eng	58.49	58.05	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.992 0.980 0.985 0.973 0.973 0.982 0.976 0.973	-0.011 -0.012 -0.007 -0.011	0.038 0.041 0.040 0.040
01:44:52.98	32992	286.0	2.64	-9.49 -9.49	0.00	79.45	eng	58.40	57.96	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34	norm		no	no	0.978 0.978 0.985 0.985 0.976 0.985 0.989 0.985	-0.010 -0.010 -0.011 -0.009	0.041 0.040 0.041 0.038
01:44:53.98	32992	286.0	2.64	-9.49 -9.49	0.00	79.45	eng	58.32	57.88	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.987 0.987 0.985 0.994 0.976 0.980 0.955 0.978	-0.010 -0.011 -0.009 -0.014	0.041 0.041 0.037 0.040
01:44:54.98	32992	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	58.27	57.79	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34		norm	no	no	0.971 0.978 0.973 0.960 0.969 0.982 0.982 0.980	-0.009 -0.012 -0.009 -0.014	0.042 0.039 0.040 0.040
01:44:55.98	32992	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	58.18	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.973 0.976 0.971 0.985 0.978 0.978 0.978 0.978	-0.010 -0.009 -0.011 -0.013	0.041 0.039 0.039 0.039
01:44:56.98	32992	286.0	2.64	-9.84 -9.84	0.00	79.45	eng	58.10	57.61	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.971 0.973 0.973 0.973 0.973 0.973 0.976	-0.010 -0.009 -0.010 -0.010	0.040 0.037 0.039 0.040
01:44:57.98	32992	286.0	2.64	-9.49 -9.84	0.00	79.45	eng	58.01	57.52	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.978 0.973 0.987 0.969 0.978 0.980 0.978 0.980	-0.007 -0.009 -0.010 -0.008	0.037 0.039 0.039 0.042
01:44:58.98	32992	286.0	2.64	-9.84 -9.49	0.00	79.45	eng	57.92	57.48	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34		norm	no	no	0.973 0.982 0.980 0.976 0.978 0.978 0.976 0.973	-0.007 -0.008 -0.011 -0.009	0.039 0.039 0.040 0.040
01:44:59.98	32992	286.0	2.64	-9.84 -9.84	0.18	79.45	eng	57.83	57.39	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.976 0.973 0.971 0.973 0.976 0.969 0.960 0.971	-0.008 -0.012 -0.011 -0.008	0.040 0.039 0.040 0.039

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:45:00.98	32992	286.0	2.64	-9.84 -9.49	0.00	79.45	eng	57.74	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.973 0.973 0.978 0.973 0.960 0.978 0.973	-0.013 -0.011 -0.010 -0.010	0.040 0.036 0.039 0.040
01:45:01.98	32992	286.0	2.64	-9.49 -9.49	0.00	79.45	eng	57.70	57.26	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.976 0.973 0.978 0.980 0.976 0.973 0.980 0.971	-0.010 -0.011 -0.007 -0.011	0.039 0.041 0.037 0.043
01:45:02.98	32992	286.0	2.64	-9.49 -9.49	0.00	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.973 0.982 0.976 0.971 0.973 0.976 0.973 0.973	-0.013 -0.013 -0.012 -0.013	0.039 0.039 0.039 0.038
01:45:03.98	32992	286.0	2.64	-9.49 -9.49	0.00	79.45	eng	57.61	57.17	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.976 0.987 0.973 0.966 0.971 0.978 0.976 0.976	-0.007 -0.009 -0.008 -0.010	0.038 0.040 0.040 0.039
01:45:04.98	32992	286.0	2.64	-9.49 -9.49	0.00	79.45	eng	57.52	57.08	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.964 0.971 0.971 0.973 0.973 0.971 0.973	-0.009 -0.007 -0.015 -0.012	0.039 0.039 0.037 0.040
01:45:05.98	32992	286.0	2.64	-9.49 -9.49	-0.18	79.45	eng	57.48	57.04	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.976 0.971 0.962 0.969 0.962 0.976 0.971 0.966	-0.016 -0.010 -0.011 -0.013	0.041 0.038 0.038 0.038
01:45:06.98	32992	286.0	2.64	-9.49 -9.49	-0.18	79.45	eng	57.44	57.00	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.966 0.973 0.978 0.971 0.976 0.985 0.962 0.978	-0.011 -0.010 -0.009 -0.009	0.035 0.039 0.038 0.037
01:45:07.98	32992	285.0	2.64	-9.49 -9.84	-0.18	79.45	eng	57.39	56.95	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34			no	no	0.976 0.973 0.973 0.971 0.969 0.966 0.971 0.971	-0.009 -0.013 -0.010 -0.012	0.040 0.039 0.038 0.037
01:45:08.98	32992	285.0	2.64	-9.49 -9.49	-0.35	79.45	eng	57.39	56.95	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.978 0.964 0.971 0.966 0.964 0.971 0.971 0.985	-0.008 -0.014 -0.011 -0.011	0.036 0.037 0.038 0.037
01:45:09.98	32992	285.0	2.64	-9.49 -9.49	-0.35	79.45	eng	57.30	56.87	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.971 0.964 0.978 0.976 0.971 0.973 0.962 0.973	-0.010 -0.010 -0.009 -0.007	0.039 0.038 0.039 0.038

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:45:10.98	32992	286.0	2.64	-9.49 -9.49	-0.35	79.45	eng	57.26	56.78	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.969 0.969 0.969 0.973 0.978 0.971 0.978 0.976	-0.008 -0.009 -0.009 -0.013	0.038 0.038 0.037 0.041
01:45:11.98	32992	286.0	2.64	-9.49 -9.49	-0.35	79.45	eng	57.17	56.73	Oper	0.70	0.35	1.28	1.28	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.969 0.980 0.987 0.971 0.971 0.980 0.982 0.978	-0.011 -0.011 -0.013 -0.012	0.035 0.037 0.040 0.040
01:45:12.98	32992	285.0	2.81	-9.49 -9.49	-0.35	79.45	eng	57.13	56.65	Oper	0.70	0.35	1.28	1.28	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.978 0.969 0.976 0.969 0.973 0.971 0.971	-0.010 -0.013 -0.008 -0.009	0.038 0.037 0.037 0.038
01:45:13.98	32992	285.0	2.81	-9.49 -9.49	-0.18	79.45	eng	57.04	56.60	Oper	0.70	0.35	1.28	1.28	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.978 0.973 0.973 0.978 0.976 0.978 0.969 0.969	-0.007 -0.013 -0.012 -0.010	0.037 0.038 0.041 0.038
01:45:14.98	32992	285.0	2.81	-9.49 -9.49	-0.18	79.45	eng	57.00	56.51	Oper	0.70	0.35	1.28	1.28	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.973 0.978 0.973 0.971 0.960 0.971 0.966 0.976	-0.012 -0.011 -0.009 -0.011	0.038 0.036 0.035 0.038
01:45:15.98	32992	285.0	2.81	-9.49 -9.49	-0.18	79.45	eng	56.87	56.43	Oper	0.70	0.35	1.28	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.964 0.969 0.985 0.969 0.976 0.966 0.982 0.973	-0.016 -0.012 -0.011 -0.011	0.040 0.038 0.037 0.038
01:45:16.98	32992	285.0	2.81	-9.49 -9.49	-0.18	79.45	eng	56.82	56.38	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.966 0.971 0.966 0.973 0.962 0.971 0.971 0.971	-0.010 -0.008 -0.010 -0.010	0.036 0.038 0.037 0.036
01:45:17.98	32992	285.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.78	56.29	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.964 0.973 0.969 0.973 0.957 0.973 0.971 0.971	-0.009 -0.016 -0.014 -0.010	0.038 0.039 0.040 0.039
01:45:18.98	32992	285.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.73	56.29	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.973 0.996 0.971 0.971 0.980 0.973 0.978 0.978	-0.008 -0.010 -0.012 -0.007	0.041 0.036 0.037 0.036
01:45:19.98	32992	285.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.69	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.966 0.978 0.982 0.966 0.978 0.980 0.969 0.976	-0.007 -0.012 -0.014 -0.014	0.037 0.037 0.036 0.037

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01:45:20.98	32992	285.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.976 0.971 0.978 0.976 0.987 0.973 0.978 0.971	-0.016 -0.013 -0.011 -0.008	0.039 0.038 0.036 0.037
01:45:21.98	32992	285.0	2.81	-9.49 -9.49	0.18	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.973 0.971 0.964 0.973 0.973 0.985 0.976 0.980	-0.010 -0.008 -0.009 -0.013	0.038 0.037 0.037 0.038
01:45:22.98	32992	285.0	2.81	-9.49 -9.49	0.18	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.969 0.973 0.973 0.976 0.980 0.978 0.996	-0.016 -0.010 -0.012 -0.011	0.039 0.037 0.040 0.039
01:45:23.98	32992	285.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.969 0.966 0.971 0.966 0.973 0.960 0.962 0.973	-0.010 -0.011 -0.008 -0.009	0.039 0.040 0.040 0.039
01:45:24.98	32992	285.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.980 0.971 0.976 0.985 0.976 0.980 0.971 0.971	-0.013 -0.009 -0.011 -0.012	0.037 0.038 0.038 0.038
01:45:25.98	32992	285.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34			no	no	0.971 0.971 0.982 0.985 0.964 0.976 0.973 0.978	-0.010 -0.011 -0.011 -0.013	0.037 0.034 0.038 0.035
01:45:26.98	32992	285.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34	norm		no	no	0.978 0.978 0.985 0.969 0.978 0.978 0.976 0.982	-0.012 -0.011 -0.011 -0.018	0.039 0.038 0.039 0.038
01:45:27.98	32992	285.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34			no	no	0.976 0.978 0.969 0.971 0.971 0.969 0.973 0.962	-0.011 -0.008 -0.010 -0.007	0.038 0.037 0.038 0.039
01:45:28.98	32992	284.0	2.81	-9.49 -9.49	-0.18	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.982 0.978 0.989 0.978 0.978 0.973 0.976 0.980	-0.012 -0.011 -0.011 -0.011	0.039 0.038 0.040 0.039
01:45:29.98	32992	284.0	2.81	-9.49 -9.49	-0.18	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.973 0.987 0.978 0.978 0.980 0.957 0.976 0.973	-0.018 -0.013 -0.015 -0.010	0.039 0.039 0.037 0.040

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01:45:30.98	32992	284.0	2.64	-9.49 -9.49	-0.18	79.45	eng	56.65	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.973 0.976 0.978 0.982 0.973 0.973 0.973 0.964	-0.010 -0.006 -0.009 -0.006	0.038 0.040 0.039 0.036
01:45:31.98	32992	284.0	2.64	-9.49 -9.49	-0.18	79.45	eng	56.69	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.973 0.978 0.973 0.976 0.969 0.969 0.973 0.973	-0.010 -0.014 -0.012 -0.012	0.039 0.039 0.036 0.039
01:45:32.98	32992	284.0	2.64	-9.49 -9.49	0.00	79.45	eng	56.69	56.25	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.964 0.976 0.976 0.978 0.964 0.976 0.971 0.982	-0.008 -0.014 -0.011 -0.015	0.038 0.037 0.039 0.040
01:45:33.98	32992	284.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.65	56.29	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.969 0.964 0.971 0.962 0.971 0.964 0.978 0.978	-0.010 -0.009 -0.013 -0.009	0.039 0.041 0.042 0.040
01:45:34.98	32992	284.0	2.81	-9.49 -9.49	0.00	79.45	eng	56.91	56.51	Oper	0.70	0.35	1.27	1.27	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.971 0.976 0.973 0.971 0.980 0.976 0.978 0.973	-0.010 -0.010 -0.011 -0.012	0.040 0.038 0.040 0.038
01:45:35.98	32992	284.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.04	56.65	Oper	0.70	0.35	1.28	1.28	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.964 0.978 0.971 0.985 0.980 0.976 0.973 0.973	-0.009 -0.008 -0.009 -0.008	0.041 0.039 0.040 0.040
01:45:36.98	32992	284.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.08	56.65	Oper	0.70	0.35	1.28	1.28	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.971 0.973 0.978 0.971 0.978 0.976 0.987 0.973	-0.008 -0.006 -0.010 -0.009	0.039 0.044 0.041 0.041
01:45:37.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.17	56.73	Oper	0.70	0.35	1.28	1.28	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.960 0.973 0.973 0.971 0.976 0.971 0.976 0.980	-0.012 -0.013 -0.010 -0.008	0.043 0.040 0.041 0.038
01:45:38.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.22	56.78	Oper	0.70	0.35	1.28	1.28	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.973 0.976 0.964 0.964 0.971 0.971 0.987 0.980	-0.005 -0.011 -0.008 -0.012	0.041 0.041 0.041 0.041
01:45:39.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.26	56.78	Oper	0.70	0.35	1.28	1.28	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.964 0.976 0.964 0.980 0.971 0.964 0.969 0.987	-0.011 -0.007 -0.010 -0.014	0.042 0.041 0.040 0.038

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:45:40.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.30	56.87	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.978 0.969 0.976 0.976 0.973 0.973 0.980 0.980	-0.011 -0.014 -0.010 -0.008	0.042 0.041 0.036 0.040
01:45:41.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.35	56.95	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.969 0.969 0.976 0.978 0.976 0.971 0.985 0.985	-0.006 -0.006 -0.015 -0.011	0.041 0.043 0.036 0.040
01:45:42.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.44	57.00	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.955 0.978 0.969 0.971 0.964 0.976 0.976 0.962	-0.016 -0.010 -0.011 -0.011	0.043 0.040 0.045 0.042
01:45:43.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.48	57.04	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.969 0.960 0.976 0.976 0.976 0.976 0.982	-0.011 -0.009 -0.009 -0.008	0.044 0.042 0.042 0.042
01:45:44.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.52	57.08	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34	norm		no	no	0.973 0.971 0.980 0.978 0.976 0.957 0.978	-0.010 -0.009 -0.013 -0.014	0.040 0.042 0.041 0.041
01:45:45.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.57	57.13	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.58	1.23	1.93	3.34			no	no	0.960 0.973 0.971 0.971 0.971 0.976 0.964 0.978	-0.010 -0.008 -0.013 -0.015	0.042 0.041 0.040 0.041
01:45:46.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.29	1.29	Eng Run	Eng Run	3.9	1.41	1.23	1.93	3.34	norm		no	no	0.978 0.971 0.973 0.962 0.969 0.971 0.973 0.976	-0.010 -0.010 -0.009 -0.007	0.044 0.040 0.043 0.041
01:45:47.98	32992	283.0	2.81	-9.49 -9.49	-0.18	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.966 0.969 0.971 0.973 0.976 0.978 0.969 0.973	-0.017 -0.011 -0.006 -0.010	0.041 0.042 0.042 0.041
01:45:48.98	32992	283.0	2.81	-9.49 -9.49	-0.18	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.971 0.973 0.971 0.978 0.969 0.971 0.973 0.976	-0.015 -0.010 -0.011 -0.011	0.042 0.041 0.043 0.041
01:45:49.98	32992	283.0	2.81	-9.49 -9.49	-0.35	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.978 0.971 0.976 0.971 0.976 0.976 0.978 0.978	-0.010 -0.010 -0.010 -0.012	0.040 0.041 0.041 0.043

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01:45:50.98	32992	283.0	2.81	-9.49 -9.49	-0.35	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.978 0.976 0.987 0.978 0.966 0.978 0.973 0.976	-0.008 -0.007 -0.011 -0.011	0.041 0.038 0.041 0.044
01:45:51.98	32992	283.0	2.99	-9.49 -9.49	-0.18	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.985 0.976 0.980 0.966 0.971 0.973 0.992 0.976	-0.010 -0.011 -0.010 -0.010	0.042 0.041 0.041 0.041
01:45:52.98	32992	283.0	2.81	-9.49 -9.49	-0.18	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.976 0.971 0.960 0.953 0.973 0.976 0.971 0.978	-0.012 -0.010 -0.010 -0.011	0.040 0.041 0.040 0.041
01:45:53.98	32992	283.0	2.81	-9.49 -9.49	-0.18	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.976 0.969 0.971 0.973 0.969 0.971 0.971 0.976	-0.010 -0.012 -0.015 -0.010	0.043 0.041 0.041 0.039
01:45:54.98	32992	283.0	2.81	-9.49 -9.49	-0.18	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.976 0.978 0.971 0.976 0.971 0.973 0.978 0.976	-0.009 -0.010 -0.015 -0.011	0.040 0.041 0.040 0.042
01:45:55.98	32992	283.0	2.81	-9.49 -9.49	-0.18	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.978 0.969 0.973 0.971 0.976 0.969 0.973	-0.011 -0.011 -0.014 -0.010	0.040 0.040 0.041 0.043
01:45:56.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.969 0.969 0.973 0.969 0.966 0.969 0.969 0.978	-0.011 -0.007 -0.013 -0.016	0.039 0.042 0.044 0.044
01:45:57.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.971 0.973 0.957 0.971 0.962 0.969 0.973 0.976	-0.009 -0.009 -0.011 -0.012	0.040 0.041 0.041 0.041
01:45:58.98	32992	283.0	2.99	-9.49 -9.49	0.00	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.973 0.957 0.973 0.976 0.966 0.971 0.973 0.969	-0.011 -0.008 -0.008 -0.009	0.041 0.041 0.041 0.041
01:45:59.98	32992	283.0	2.99	-9.49 -9.49	0.00	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.976 0.971 0.969 0.966 0.989 0.957 0.973 0.971	-0.014 -0.013 -0.006 -0.009	0.041 0.043 0.040 0.039

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01:46:00.98	32992	283.0	2.99	-9.49 -9.49	0.00	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.971 0.969 0.973 0.969 0.971 0.978 0.966	-0.014 -0.007 -0.011 -0.012	0.042 0.043 0.043 0.043
01:46:01.98	32992	283.0	2.99	-9.49 -9.49	0.00	79.45	eng	57.66	57.22	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.962 0.973 0.973 0.973 0.978 0.971 0.976	-0.009 -0.013 -0.013 -0.013	0.042 0.041 0.041
01:46:02.98	32992	283.0	2.99	-9.49 -9.49	-0.18	79.45	eng	57.74	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.964 0.973 0.976 0.971 0.978 0.973 0.969 0.969	-0.011 -0.010 -0.009 -0.014	0.040 0.040 0.043 0.041
01:46:03.98	32992	283.0	2.99	-9.49 -9.49	-0.18	79.45	eng	57.79	57.35	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.989 0.971 0.976 0.976 0.976 0.978 0.962 0.985	-0.008 -0.008 -0.010 -0.012	0.042 0.043 0.041 0.042
01:46:04.98	32992	283.0	2.99	-9.49 -9.49	-0.18	79.45	eng	57.79	57.35	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.985 0.973 0.973 0.971 0.978 0.973 0.978 0.976	-0.011 -0.018 -0.014 -0.010	0.040 0.043 0.041 0.042
01:46:05.98	32992	283.0	2.99	-9.49 -9.49	0.00	79.45	eng	57.83	57.39	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.973 0.973 0.976 0.973 0.978 0.971 0.969 0.966	-0.013 -0.010 -0.010 -0.009	0.042 0.041 0.040 0.039
01:46:06.98	32992	283.0	2.99	-9.49 -9.49	0.00	79.45	eng	57.88	57.44	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.966 0.973 0.976 0.976 0.966 0.976 0.971 0.976	-0.010 -0.017 -0.015 -0.009	0.043 0.043 0.043 0.043
01:46:07.98	32992	283.0	2.99	-9.49 -9.49	-0.18	79.45	eng	57.92	57.48	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.980 0.973 0.978 0.964 0.982 0.969 0.964 0.973	-0.006 -0.012 -0.014 -0.007	0.043 0.044 0.043 0.043
01:46:08.98	32992	283.0	2.99	-9.49 -9.49	-0.18	79.45	eng	58.01	57.52	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.23	1.41	1.93	3.34	norm		no	no	0.969 0.971 0.971 0.971 0.964 0.976 0.971 0.976	-0.011 -0.014 -0.013 -0.008	0.041 0.043 0.043 0.044
01:46:09.98	32992	283.0	2.99	-9.49 -9.49	-0.18	79.45	eng	58.01	57.57	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.971 0.971 0.971 0.978 0.971 0.962 0.980 0.971	-0.006 -0.013 -0.014 -0.009	0.042 0.042 0.044 0.043

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01:46:10.98	32992	282.0	2.99	-9.49 -9.49	0.00	79.45	eng	58.10	57.66	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34		norm	no	no	0.976 0.971 0.976 0.971 0.964 0.973 0.971 0.962	-0.008 -0.013 -0.014 -0.010	0.045 0.045 0.043 0.041
01:46:11.98	32992	282.0	2.99	-9.49 -9.49	0.00	79.45	eng	58.14	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.980 0.960 0.976 0.980 0.973 0.971 0.976 0.976	-0.010 -0.010 -0.010 -0.011	0.044 0.044 0.044 0.043
01:46:12.98	32992	282.0	2.99	-9.49 -9.49	0.00	79.63	eng	58.23	57.79	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.971 0.971 0.973 0.976 0.978 0.971 0.982 0.964	-0.010 -0.013 -0.016 -0.011	0.042 0.044 0.044 0.044
01:46:13.98	32992	282.0	2.99	-9.49 -9.49	0.00	79.63	eng	58.27	57.83	Oper	0.70	0.35	1.32	1.31	Eng Run	Eng Run	3.9	1.23	1.41	1.93	3.34			no	no	0.969 0.978 0.980 0.985 0.969 0.976 0.969 0.960	-0.012 -0.014 -0.013 -0.009	0.041 0.045 0.046 0.041
01:46:14.98	32992	283.0	2.99	-9.49 -9.49	-0.18	79.63	eng	58.32	57.83	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34		norm	no	no	0.973 0.978 0.969 0.973 0.969 0.971 0.971 0.985	-0.008 -0.013 -0.012 -0.011	0.041 0.044 0.044 0.043
01:46:15.98	32992	283.0	2.99	-9.49 -9.49	-0.18	79.63	eng	58.32	57.83	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.980 0.971 0.973 0.976 0.978 0.976 0.973 0.973	-0.009 -0.014 -0.015 -0.011	0.043 0.043 0.045 0.045
01:46:16.98	32992	283.0	2.99	-9.49 -9.49	-0.18	79.63	eng	58.32	57.83	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.973 0.973 0.960 0.969 0.960 0.964 0.964 0.964	-0.009 -0.012 -0.013 -0.013	0.043 0.044 0.045 0.044
01:46:17.98	32992	283.0	2.81	-9.49 -9.49	-0.18	79.63	eng	58.32	57.83	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.960 0.969 0.955 0.973 0.964 0.973 0.976 0.973	-0.014 -0.011 -0.011 -0.011	0.044 0.040 0.042 0.043
01:46:18.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.63	eng	58.32	57.83	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34		norm	no	no	0.964 0.980 0.964 0.973 0.973 0.976 0.957 0.978	-0.011 -0.008 -0.007 -0.010	0.044 0.042 0.041 0.043
01:46:19.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.63	eng	58.27	57.70	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.973 0.964 0.957 0.971 0.969 0.973 0.960 0.978	-0.011 -0.011 -0.016 -0.018	0.041 0.041 0.042 0.044

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:46:20.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.63	eng	57.96	57.48	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.973 0.987 0.976 0.962 0.971 0.980 0.971 0.989	-0.008 -0.012 -0.011 -0.008	0.043 0.041 0.041 0.041
01:46:21.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.63	eng	57.88	57.39	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.971 0.978 0.971 0.973 0.964 0.966 0.966 0.969	-0.010 -0.015 -0.013 -0.009	0.043 0.042 0.044 0.044
01:46:22.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.63	eng	57.79	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.964 0.971 0.969 0.964 0.969 0.973 0.964 0.973	-0.008 -0.012 -0.013 -0.006	0.040 0.040 0.042 0.042
01:46:23.98	32992	283.0	2.81	-9.49 -9.49	0.18	79.63	eng	57.74	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.969 0.969 0.973 0.964 0.966 0.964 0.969 0.973	-0.010 -0.009 -0.011 -0.014	0.042 0.040 0.041 0.042
01:46:24.98	32992	283.0	2.81	-9.49 -9.49	0.18	79.63	eng	57.70	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.971 0.966 0.971 0.980 0.976 0.962 0.978 0.971	-0.010 -0.010 -0.014 -0.012	0.041 0.040 0.043 0.042
01:46:25.98	32992	283.0	2.81	-9.49 -9.49	0.18	79.63	eng	57.70	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.971 0.971 0.969 0.971 0.982 0.976 0.978 0.971	-0.013 -0.009 -0.010 -0.010 -0.009	0.043 0.041 0.042 0.041
01:46:26.98	32992	283.0	2.81	-9.49 -9.49	0.18	79.63	eng	57.70	57.26	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.971 0.973 0.969 0.971 0.969 0.971 0.985 0.976	-0.012 -0.013 -0.008 -0.010	0.042 0.042 0.041 0.042
01:46:27.98	32992	283.0	2.81	-9.49 -9.49	0.18	79.63	eng	57.70	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.969 0.969 0.976 0.985 0.973 0.973 0.985 0.980	-0.009 -0.016 -0.011 -0.009	0.043 0.042 0.041 0.042
01:46:28.98	32992	283.0	2.81	-9.49 -9.49	0.18	79.63	eng	57.70	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.976 0.960 0.969 0.971 0.964 0.973 0.971 0.969	-0.005 -0.013 -0.013 -0.013	0.042 0.042 0.042 0.042
01:46:29.98	32992	283.0	2.81	-9.49 -9.49	0.18	79.63	eng	57.74	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.973 0.971 0.966 0.969 0.971 0.971 0.976 0.973	-0.008 -0.009 -0.014 -0.013	0.040 0.041 0.042 0.041

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:46:30.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.63	eng	57.70	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34		norm	no	no	0.971 0.976 0.976 0.960 0.973 0.978 0.976 0.966	-0.011 -0.004 -0.013 -0.012	0.042 0.042 0.040 0.041
01:46:31.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.80	eng	57.70	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.980 0.971 0.962 0.971 0.964 0.976 0.969 0.973	-0.010 -0.011 -0.011 -0.014	0.041 0.041 0.043 0.042
01:46:32.98	32992	283.0	2.81	-9.49 -9.49	0.00	79.80	eng	57.70	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.964 0.971 0.973 0.987 0.969 0.973 0.962 0.976	-0.016 -0.012 -0.007 -0.011	0.041 0.043 0.042 0.042
01:46:33.98	32992	283.0	2.81	-9.49 -9.49	0.18	79.80	eng	57.74	57.30	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.964 0.978 0.978 0.978 0.964 0.969 0.969 0.964	-0.013 -0.014 -0.009 -0.010	0.042 0.042 0.047 0.043
01:46:34.98	32992	283.0	2.81	-9.49 -9.49	0.18	79.80	eng	57.88	57.44	Oper	0.70	0.35	1.30	1.30	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.965 0.960 0.969 0.973 0.969 0.969 0.969 0.969	-0.012 -0.015 -0.014 -0.013	0.041 0.042 0.044 0.042
01:46:35.98	32992	282.0	2.81	-9.49 -9.49	0.18	79.80	eng	58.05	57.61	Oper	0.70	0.35	1.30	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.969 0.973 0.971 0.973 0.971 0.971 0.980 0.978	-0.009 -0.015 -0.007 -0.011	0.041 0.040 0.043 0.044
01:46:36.98	32992	282.0	2.81	-9.49 -9.49	0.18	79.80	eng	58.14	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.973 0.971 0.989 0.971 0.973 0.976 0.973 0.976	-0.014 -0.012 -0.009 -0.011	0.041 0.042 0.043 0.043
01:46:37.98	32992	282.0	2.81	-9.49 -9.49	0.18	79.80	eng	58.23	57.79	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.966 0.973 0.969 0.960 0.973 0.971 0.973 0.971	-0.012 -0.010 -0.013 -0.014	0.042 0.041 0.043 0.044
01:46:38.98	32992	282.0	2.81	-9.49 -9.49	0.00	79.80	eng	58.36	57.88	Oper	0.70	0.35	1.31	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.971 0.978 0.976 0.969 0.969 0.971 0.971 0.982	-0.013 -0.008 -0.011 -0.014	0.042 0.042 0.044 0.043
01:46:39.98	32992	282.0	2.81	-9.49 -9.49	0.00	79.80	eng	58.40	57.96	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.966 0.971 0.971 0.976 0.971 0.971 0.969 0.976	-0.010 -0.009 -0.015 -0.012	0.044 0.042 0.044 0.042

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01:46:40.98	32992	282.0	2.81	-9.49 -9.49	0.00	79.80	eng	58.45	57.96	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.985 0.976 0.992 0.973 0.980 0.976 0.976 0.962	-0.008 -0.013 -0.010 -0.008	0.045 0.044 0.045 0.045
01:46:41.98	32992	282.0	2.81	-9.49 -9.49	-0.18	79.80	eng	58.45	58.01	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.973 0.980 0.971 0.973 0.969 0.973 0.982 0.971	-0.015 -0.011 -0.008 -0.011	0.042 0.043 0.043 0.044
01:46:42.98	32992	282.0	2.81	-9.49 -9.49	-0.18	79.80	eng	58.49	58.01	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.971 0.957 0.973 0.980 0.971 0.973 0.971	-0.010 -0.011 -0.006 -0.014	0.043 0.044 0.042 0.044
01:46:43.98	32992	282.0	2.81	-9.49 -9.49	0.00	79.80	eng	58.45	58.01	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.971 0.957 0.982 0.976 0.962 0.978 0.978 0.971	-0.013 -0.007 -0.010 -0.014	0.046 0.044 0.044 0.043
01:46:44.98	32992	282.0	2.81	-9.49 -9.49	0.00	79.80	eng	58.49	58.01	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.978 0.973 0.969 0.964 0.976 0.976 0.973 0.987	-0.010 -0.011 -0.011 -0.011	0.043 0.043 0.046 0.044
01:46:45.98	32992	282.0	2.81	-9.49 -9.49	0.00	79.80	eng	58.23	57.74	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.973 0.973 0.976 0.976 0.973 0.980 0.976 0.980	-0.012 -0.013 -0.006 -0.008	0.043 0.044 0.044 0.043
01:46:46.98	32992	282.0	2.81	-9.49 -9.49	0.00	79.80	eng	58.18	57.74	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.976 0.976 0.971 0.969 0.962 0.973 0.973 0.973	-0.008 -0.010 -0.013 -0.009	0.044 0.045 0.044 0.044
01:46:47.98	32992	282.0	2.81	-9.49 -9.14	-0.18	79.80	eng	58.18	57.74	Oper	0.70	0.35	1.31	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.971 0.976 0.971 0.980 0.973 0.973 0.978 0.976	-0.014 -0.013 -0.004 -0.013	0.041 0.048 0.044 0.042
01:46:48.98	32992	282.0	2.81	-9.49 -9.49	-0.18	79.80	eng	58.14	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.982 0.969 0.976 0.976 0.971 0.980 0.982 0.987	-0.010 -0.014 -0.004 -0.015	0.042 0.041 0.043 0.045
01:46:49.98	32992	282.0	2.81	-9.49 -9.49	-0.18	79.80	eng	58.14	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.969 0.980 0.978 0.976 0.971 0.971 0.973 0.976	-0.010 -0.009 -0.008 -0.015	0.044 0.043 0.041 0.044

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01:46:50.98	32992	282.0	2.81	-9.49 -9.49	-0.18	79.80	eng	58.14	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.971 0.969 0.964 0.969 0.976 0.969 0.971 0.971	-0.010 -0.007 -0.007 -0.014	0.044 0.044 0.042 0.045
01:46:51.98	32992	281.0	2.81	-9.14 -9.14	-0.18	79.80	eng	58.10	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.978 0.976 0.978 0.976 0.973 0.971 0.971 0.973	-0.009 -0.011 -0.015 -0.012	0.044 0.044 0.047 0.045
01:46:52.98	32992	281.0	2.81	-9.49 -9.14	-0.18	79.80	eng	58.10	57.66	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.978 0.964 0.976 0.973 0.980 0.973 0.962 0.960	-0.013 -0.005 -0.015 -0.012	0.043 0.044 0.044 0.047
01:46:53.98	32992	281.0	2.81	-9.14 -9.14	-0.18	79.80	eng	58.10	57.66	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.971 0.976 0.973 0.973 0.971 0.973 0.971 0.969	-0.008 -0.012 -0.011 -0.011	0.043 0.043 0.045 0.047
01:46:54.98	32992	281.0	2.81	-9.14 -9.14	-0.18	79.80	eng	58.10	57.66	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34		norm	no	no	0.973 0.980 0.973 0.980 0.971 0.978 0.978 0.978	-0.010 -0.011 -0.013 -0.013	0.047 0.038 0.045 0.046
01:46:55.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.14	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.973 0.978 0.976 0.971 0.964 0.982 0.976 0.989	-0.009 -0.011 -0.012 -0.010	0.044 0.042 0.046 0.045
01:46:56.98	32992	281.0	2.81	-9.14 -9.14	0.00	79.80	eng	58.14	57.66	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.980 0.994 0.992 0.964 0.980 0.978 0.978 0.978	-0.010 -0.012 -0.014 -0.011	0.044 0.044 0.044 0.046
01:46:57.98	32992	281.0	2.81	-9.14 -9.14	-0.18	79.80	eng	58.14	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.23	1.41	1.93	3.34			no	no	0.971 0.971 0.962 0.978 0.971 0.978 0.973 0.973	-0.009 -0.013 -0.009 -0.010	0.044 0.043 0.044 0.046
01:46:58.98	32992	281.0	2.99	-9.14 -9.49	-0.18	79.80	eng	58.10	57.66	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34		norm	no	no	0.962 0.978 0.957 0.980 0.980 0.969 0.976 0.973	-0.009 -0.011 -0.012 -0.010	0.044 0.044 0.046 0.045
01:46:59.98	32992	281.0	2.81	-9.14 -9.14	-0.18	79.80	eng	58.10	57.66	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.973 0.976 0.978 0.980 0.980 0.980 0.976 0.973	-0.009 -0.014 -0.014 -0.008	0.043 0.044 0.045 0.043

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01:47:00.98	32992	281.0	2.81	-9.14 -9.14	0.00	79.80	eng	58.10	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.971 0.971 0.976 0.980 0.980 0.976 0.976	-0.006 -0.014 -0.016 -0.010	0.043 0.044 0.044 0.045
01:47:01.98	32992	282.0	2.81	-9.14 -9.14	-0.18	79.80	eng	58.10	57.66	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.969 0.971 0.985 0.971 0.976 0.973 0.971 0.976	-0.010 -0.011 -0.016 -0.006	0.044 0.044 0.044 0.046
01:47:02.98	32992	282.0	2.81	-9.14 -9.14	-0.18	79.80	eng	58.14	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.978 0.976 0.971 0.987 0.980 0.973 0.978 0.973	-0.012 -0.012 -0.009 -0.010	0.042 0.046 0.044 0.044
01:47:03.98	32992	282.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.10	57.66	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.973 0.978 0.976 0.971 0.976 0.978 0.980 0.973	-0.012 -0.019 -0.010 -0.007	0.044 0.044 0.044 0.044
01:47:04.98	32992	282.0	2.81	-9.14 -9.49	-0.18	79.80	eng	58.14	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.969 0.976 0.976 0.978 0.966 0.973 0.978 0.969	-0.010 -0.010 -0.006 -0.011	0.045 0.041 0.043 0.044
01:47:05.98	32992	282.0	2.81	-9.49 -9.49	0.00	79.80	eng	58.10	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.969 0.971 0.960 0.978 0.969 0.971 0.966 0.969	-0.017 -0.010 -0.010 -0.011	0.044 0.045 0.041 0.042
01:47:06.98	32992	282.0	2.81	-9.14 -9.14	0.18	79.80	eng	58.14	57.70	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.978 0.976 0.973 0.971 0.964 0.973 0.976 0.966	-0.014 -0.009 -0.011 -0.011	0.044 0.045 0.042 0.041
01:47:07.98	32992	282.0	2.81	-9.14 -9.49	0.18	79.80	eng	58.18	57.74	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.969 0.969 0.969 0.978 0.973 0.980 0.971 0.971	-0.016 -0.010 -0.012 -0.010	0.044 0.044 0.043 0.044
01:47:08.98	32992	282.0	2.81	-9.14 -9.49	0.00	79.80	eng	58.18	57.74	Oper	0.70	0.35	1.31	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.973 0.971 0.976 0.969 0.971 0.966 0.966 0.976	-0.011 -0.012 -0.008 -0.013	0.041 0.042 0.041 0.043
01:47:09.98	32992	282.0	2.81	-9.49 -9.49	0.00	79.80	eng	58.18	57.74	Oper	0.70	0.35	1.32	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.973 0.978 0.980 0.971 0.973 0.976 0.964 0.980	-0.012 -0.011 -0.011 -0.011	0.044 0.044 0.044 0.043

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:47:10.98	32992	281.0	2.81	-9.14 -9.49	0.00	79.80	eng	58.23	57.74	Oper	0.70	0.35	1.32	1.31	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.964 0.971 0.976 0.973 0.953 0.976 0.973 0.976	-0.016 -0.009 -0.010 -0.015	0.045 0.047 0.044 0.044
01:47:11.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.18	57.74	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.41	1.93	3.34			no	no	0.969 0.969 0.971 0.971 0.976 0.973 0.969 0.971	-0.015 -0.006 -0.011 -0.010	0.044 0.044 0.045 0.045
01:47:12.98	32992	281.0	2.99	-9.49 -9.14	-0.18	79.80	eng	58.18	57.74	Oper	0.70	0.35	1.32	1.31	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.973 0.971 0.964 0.971 0.971 0.969 0.960 0.978	-0.011 -0.005 -0.012 -0.010	0.045 0.042 0.044 0.045
01:47:13.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.18	57.74	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.971 0.976 0.971 0.973 0.969 0.978 0.976 0.971	-0.008 -0.011 -0.013 -0.013	0.044 0.043 0.044 0.042
01:47:14.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.23	57.74	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.973 0.971 0.987 0.971 0.971 0.969 0.973 0.976	-0.009 -0.013 -0.014 -0.011	0.045 0.044 0.046 0.044
01:47:15.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.23	57.79	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.973 0.973 0.969 0.960 0.985 0.973 0.971 0.973	-0.010 -0.015 -0.010 -0.010	0.044 0.044 0.046 0.045
01:47:16.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.23	57.79	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.971 0.971 0.976 0.971 0.973 0.971 0.962 0.980	-0.009 -0.016 -0.005 -0.009	0.045 0.046 0.041 0.044
01:47:17.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.23	57.79	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.978 0.969 0.964 0.978 0.966 0.987 0.976 0.980	-0.015 -0.015 -0.011 -0.010	0.044 0.046 0.044 0.044
01:47:18.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.23	57.79	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34		norm	no	no	0.964 0.973 0.978 0.973 0.973 0.980 0.978 0.971	-0.016 -0.009 -0.007 -0.008	0.044 0.047 0.044 0.043
01:47:19.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.23	57.79	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.976 0.973 0.976 0.980 0.971 0.978 0.969 0.973	-0.016 -0.011 -0.013 -0.010	0.046 0.045 0.046 0.045

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:47:20.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.23	57.83	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34	norm		no	no	0.973 0.966 0.973 0.971 0.964 0.973 0.980 0.966	-0.009 -0.010 -0.007 -0.014	0.045 0.041 0.045 0.045
01:47:21.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.27	57.83	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.966 0.971 0.982 0.971 0.966 0.978 0.973 0.973	-0.013 -0.006 -0.009 -0.009	0.047 0.046 0.045 0.044
01:47:22.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.27	57.83	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.966 0.976 0.976 0.966 0.973 0.973 0.971 0.971	-0.011 -0.007 -0.014 -0.016	0.045 0.047 0.044 0.048
01:47:23.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.32	57.83	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.962 0.980 0.971 0.966 0.976 0.973 0.971 0.976	-0.004 -0.015 -0.014 -0.011	0.046 0.043 0.046 0.047
01:47:24.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.63	eng	58.32	57.88	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.975 0.966 0.971 0.966 0.969 0.969 0.976 0.976	-0.002 -0.011 -0.015 -0.005	0.044 0.045 0.046 0.044
01:47:25.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.63	eng	58.36	57.88	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.980 0.969 0.973 0.971 0.976 0.971 0.973 0.978	-0.012 -0.015 -0.012 -0.009	0.044 0.045 0.045 0.045
01:47:26.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.63	eng	58.36	57.92	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.971 0.978 0.978 0.980 0.982 0.962 0.971 0.971	-0.015 -0.008 -0.008 -0.012	0.043 0.045 0.044 0.040
01:47:27.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.40	57.96	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.980 0.971 0.969 0.978 0.971 0.973 0.973 0.978	-0.013 -0.011 -0.004 -0.013	0.044 0.044 0.044 0.045
01:47:28.98	32992	281.0	2.99	-9.14 -9.14	-0.35	79.80	eng	58.40	57.92	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.978 0.976 0.980 0.973 0.978 0.980 0.971 0.987	-0.010 -0.009 -0.010 -0.009	0.044 0.044 0.045 0.046
01:47:29.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.40	57.96	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.978 0.985 0.980 0.985 0.980 0.957 0.985 0.976	-0.009 -0.009 -0.010 -0.009	0.046 0.046 0.043 0.045

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:47:30.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.40	57.96	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34		norm	no	no	0.976 0.973 0.973 0.978 0.971 0.978 0.976 0.978	-0.008 -0.010 -0.012 -0.009	0.045 0.044 0.045 0.045
01:47:31.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.40	57.96	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.976 0.980 0.976 0.971 0.964 0.980 0.971 0.973	-0.010 -0.014 -0.011 -0.012	0.046 0.045 0.045 0.046
01:47:32.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.40	57.96	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.971 0.971 0.960 0.971 0.973 0.964 0.971 0.969	-0.017 -0.015 -0.009 -0.010	0.046 0.047 0.044 0.045
01:47:33.98	32992	281.0	2.99	-9.14 -9.14	-0.35	79.80	eng	58.45	57.96	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.969 0.971 0.969 0.976 0.971 0.976 0.980 0.976	-0.014 -0.009 -0.013 -0.014	0.043 0.045 0.045 0.045
01:47:34.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.45	58.01	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.34		norm	no	no	0.962 0.973 0.964 0.964 0.976 0.976 0.976 0.980	-0.009 -0.004 -0.016 -0.011	0.047 0.043 0.044 0.044
01:47:35.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.45	58.01	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.34			no	no	0.971 0.971 0.973 0.971 0.978 0.976 0.978 0.973	-0.010 -0.013 -0.017 -0.010	0.044 0.044 0.047 0.046
01:47:36.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.49	58.01	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.971 0.971 0.978 0.955 0.971 0.973 0.969 0.982	-0.011 -0.018 -0.010 -0.014	0.047 0.043 0.049 0.044
01:47:37.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.49	58.01	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.978 0.969 0.976 0.969 0.971 0.966 0.969 0.969	-0.011 -0.011 -0.010 -0.013	0.047 0.047 0.045 0.044
01:47:38.98	32992	281.0	2.99	-9.14 -9.14	0.18	79.80	eng	58.49	58.01	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34		norm	no	no	0.964 0.971 0.964 0.971 0.966 0.973 0.971 0.976	-0.013 -0.011 -0.008 -0.009	0.046 0.044 0.046 0.046
01:47:39.98	32992	281.0	2.99	-9.14 -9.14	0.18	79.80	eng	58.49	58.01	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.971 0.973 0.971 0.976 0.976 0.976 0.987 0.976	-0.009 -0.010 -0.010 -0.011	0.046 0.044 0.045 0.045

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:47:40.98	32992	281.0	2.99	-9.14 -9.14	0.18	79.80	eng	58.49	58.05	Oper	0.70	0.35	1.32	1.33	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.973 0.971 0.976 0.978 0.971 0.971 0.969 0.976	-0.010 -0.011 -0.012 -0.009	0.046 0.041 0.046 0.046
01:47:41.98	32992	281.0	2.99	-9.14 -9.14	0.35	79.80	eng	58.49	58.05	Oper	0.70	0.35	1.32	1.32	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.978 0.964 0.978 0.969 0.969 0.971 0.969 0.973	-0.010 -0.014 -0.011 -0.008	0.043 0.043 0.046 0.043
01:47:42.98	32992	281.0	2.99	-9.14 -9.14	0.18	79.80	eng	58.54	58.05	Oper	0.70	0.35	1.32	1.33	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34		norm	no	no	0.957 0.973 0.973 0.976 0.976 0.969 0.976 0.978	-0.016 -0.013 -0.008 -0.011	0.046 0.048 0.047 0.045
01:47:43.98	32992	281.0	2.99	-9.14 -9.14	0.18	79.80	eng	58.54	58.05	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.980 0.971 0.962 0.976 0.973 0.978 0.973 0.978	-0.013 -0.005 -0.006 -0.017	0.045 0.052 0.046 0.046
01:47:44.98	32992	280.0	2.99	-9.14 -9.14	0.18	79.98	eng	58.54	58.10	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34	norm		no	no	0.978 0.973 0.976 0.976 0.969 0.964 0.982 0.973	-0.008 -0.004 -0.013 -0.011	0.047 0.045 0.046 0.046
01:47:45.98	32992	281.0	2.99	-9.14 -9.14	0.35	79.98	eng	58.54	58.10	Oper	0.70	0.35	1.33	1.32	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.966 0.973 0.976 0.973 0.966 0.973 0.973 0.969	-0.010 -0.013 -0.006 -0.010	0.046 0.046 0.048 0.046
01:47:46.98	32992	280.0	2.99	-9.14 -9.14	0.18	79.98	eng	58.54	58.10	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.976 0.964 0.985 0.976 0.976 0.971 0.971 0.971	-0.012 -0.013 -0.009 -0.012	0.044 0.047 0.044 0.045
01:47:47.98	32992	280.0	2.99	-9.14 -9.14	0.18	79.98	eng	58.58	58.10	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.971 0.971 0.966 0.964 0.966 0.969 0.966 0.966	-0.009 -0.010 -0.011 -0.014	0.045 0.046 0.045 0.046
01:47:48.98	32992	280.0	2.99	-9.14 -9.14	0.18	79.98	eng	58.54	58.10	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.973 0.973 0.971 0.971 0.953 0.971 0.971 0.969	-0.011 -0.004 -0.011 -0.009	0.045 0.045 0.046 0.045
01:47:49.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.58	58.10	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.969 0.973 0.973 0.992 0.980 0.973 0.982 0.976	-0.011 -0.009 -0.015 -0.011	0.046 0.047 0.045 0.045

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:47:50.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.58	58.14	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.985 0.971 0.978 0.973 0.971 0.980 0.976 0.976	-0.012 -0.013 -0.011 -0.006	0.046 0.045 0.044 0.044
01:47:51.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.62	58.14	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.16			no	no	0.971 0.969 0.971 0.969 0.962 0.971 0.976 0.969	-0.013 -0.009 -0.011 -0.015	0.046 0.045 0.045 0.044
01:47:52.98	32992	280.0	2.99	-9.14 -9.14	-0.18	79.98	eng	58.62	58.14	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.976 0.973 0.969 0.964 0.964 0.971 0.980 0.978	-0.009 -0.009 -0.013 -0.011	0.045 0.045 0.046 0.047
01:47:53.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.62	58.18	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34			no	no	0.973 0.973 0.973 0.976 0.969 0.971 0.976 0.971	-0.008 -0.015 -0.010 -0.009	0.043 0.043 0.045 0.045
01:47:54.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.62	58.18	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34	norm		no	no	0.969 0.969 0.978 0.980 0.964 0.969 0.976 0.976	-0.013 -0.011 -0.008 -0.015	0.045 0.046 0.045 0.045
01:47:55.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.62	58.18	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.966 0.964 0.973 0.973 0.971 0.969 0.971 0.971	-0.011 -0.011 -0.010 -0.008	0.047 0.043 0.046 0.047
01:47:56.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.67	58.18	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.973 0.969 0.976 0.973 0.971 0.976 0.985 0.973	-0.007 -0.011 -0.014 -0.010	0.046 0.043 0.047 0.045
01:47:57.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.67	58.23	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.976 0.973 0.971 0.971 0.969 0.969 0.971 0.973	-0.009 -0.013 -0.011 -0.009	0.044 0.044 0.045 0.040
01:47:58.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.67	58.23	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.966 0.960 0.973 0.969 0.973 0.982 0.982 0.973	-0.012 -0.009 -0.013 -0.009	0.045 0.046 0.046 0.046
01:47:59.98	32992	280.0	2.99	-9.14 -9.14	0.18	79.98	eng	58.71	58.23	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.976 0.973 0.973 0.964 0.969 0.969 0.971 0.973	-0.011 -0.012 -0.013 -0.012	0.047 0.043 0.045 0.046

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:48:00.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.71	58.27	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.969 0.969 0.966 0.971 0.973 0.973 0.980 0.985	-0.008 -0.011 -0.013 -0.010	0.044 0.046 0.044 0.044
01:48:01.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.71	58.27	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.966 0.969 0.973 0.969 0.969 0.978 0.964 0.976	-0.011 -0.012 -0.007 -0.009	0.048 0.048 0.044 0.046
01:48:02.98	32992	280.0	2.99	-9.14 -9.14	-0.18	79.98	eng	58.75	58.27	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.966 0.971 0.966 0.966 0.962 0.960 0.969 0.969	-0.013 -0.007 -0.013 -0.012	0.044 0.043 0.045 0.046
01:48:03.98	32992	280.0	2.99	-9.14 -9.14	-0.18	79.98	eng	58.75	58.27	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.953 0.969 0.971 0.971 0.966 0.971 0.973 0.971	-0.008 -0.009 -0.015 -0.009	0.046 0.044 0.046 0.045
01:48:04.98	32992	280.0	2.99	-9.14 -9.14	-0.18	79.98	eng	58.71	58.27	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.964 0.966 0.969 0.978 0.969 0.962 0.964 0.971	-0.014 -0.013 -0.007 -0.009	0.044 0.046 0.045 0.044
01:48:05.98	32992	280.0	2.99	-9.14 -9.14	-0.18	79.98	eng	58.75	58.27	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.16			no	no	0.976 0.973 0.976 0.971 0.978 0.978 0.960 0.966	-0.011 -0.005 -0.013 -0.013	0.047 0.045 0.043 0.045
01:48:06.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.98	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.16	norm		no	no	0.969 0.971 0.969 0.976 0.971 0.971 0.978 0.980	-0.008 -0.012 -0.008 -0.009	0.045 0.043 0.048 0.045
01:48:07.98	32992	281.0	2.99	-9.84 -9.14	-0.18	79.98	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.16			no	no	0.969 0.978 0.973 0.976 0.966 0.973 0.978 0.996	-0.012 -0.011 -0.011 -0.012	0.047 0.045 0.044 0.047
01:48:08.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.980 0.966 0.960 0.971 0.971 0.966 0.976 0.976	-0.015 -0.009 -0.012 -0.011	0.047 0.047 0.046 0.046
01:48:09.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.16			no	no	0.971 0.971 0.973 0.973 0.969 0.985 0.964 0.973	-0.011 -0.012 -0.016 -0.008	0.044 0.045 0.045 0.044

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:48:10.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34		norm	no	no	0.976 0.969 0.980 0.980 0.973 0.978 0.978 0.985	-0.009 -0.016 -0.008 -0.013	0.044 0.045 0.045 0.044
01:48:11.98	32992	281.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.16			no	no	0.980 0.978 0.976 0.973 0.973 0.976 0.962 0.980	-0.015 -0.007 -0.012 -0.014	0.044 0.043 0.044 0.045
01:48:12.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.34	norm		no	no	0.973 0.971 0.971 0.969 0.960 0.973 0.976 0.973	-0.011 -0.016 -0.010 -0.007	0.045 0.047 0.047 0.042
01:48:13.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.969 0.971 0.973 0.982 0.971 0.976 0.971 0.978	-0.011 -0.014 -0.010 -0.011	0.047 0.044 0.046 0.043
01:48:14.98	32992	281.0	2.99	-9.49 -9.14	0.18	79.80	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.16		norm	no	no	0.951 0.964 0.964 0.969 0.955 0.980 0.971 0.964	-0.009 -0.007 -0.015 -0.012	0.045 0.044 0.044 0.045
01:48:15.98	32992	281.0	2.99	-9.14 -9.14	0.18	79.80	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.976 0.982 0.976 0.978 0.973 0.971 0.976 0.964	-0.006 -0.014 -0.009 -0.010	0.043 0.044 0.045 0.045
01:48:16.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.987 0.971 0.973 0.992 0.976 0.973 0.957 0.976	-0.017 -0.011 -0.010 -0.010	0.044 0.046 0.042 0.045
01:48:17.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.75	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.971 0.973 0.971 0.976 0.971 0.985 0.973 0.978	-0.013 -0.010 -0.011 -0.014	0.045 0.044 0.046 0.044
01:48:18.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.80	58.32	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34		norm	no	no	0.973 0.973 0.976 0.989 0.971 0.964 0.957 0.964	-0.011 -0.009 -0.010 -0.006	0.043 0.046 0.047 0.045
01:48:19.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.80	58.36	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.971 0.976 0.976 0.969 0.973 0.976 0.971 0.980	-0.011 -0.010 -0.008 -0.013	0.045 0.045 0.044 0.044

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:48:20.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.80	58.36	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.976 0.978 0.969 0.969 0.964 0.973 0.976 0.973	-0.011 -0.009 -0.010 -0.013	0.045 0.045 0.045 0.045
01:48:21.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.80	58.36	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.971 0.985 0.971 0.969 0.964 0.960 0.964 0.962	-0.010 -0.017 -0.009 -0.010	0.048 0.047 0.046 0.044
01:48:22.98	32960	280.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.80	58.36	Oper	0.70	0.35	1.33	1.34	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34	norm		no	no	0.964 0.980 0.969 0.973 0.971 0.973 0.950 0.985	-0.011 -0.011 -0.013 -0.015	0.043 0.045 0.045 0.045
01:48:23.98	32992	281.0	2.99	-9.14 -9.14	-0.35	79.80	eng	58.84	58.36	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.971 0.980 0.976 0.985 0.980 0.978 0.980 0.978	-0.008 -0.011 -0.016 -0.010	0.046 0.045 0.046 0.046
01:48:24.98	32992	280.0	2.99	-9.14 -9.14	-0.53	79.80	eng	58.84	58.40	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.972 0.973 0.973 0.973 0.971 0.960 0.982	-0.016 -0.012 -0.005 -0.013	0.045 0.047 0.048 0.045
01:48:25.98	32992	280.0	2.99	-9.14 -9.14	-0.53	79.80	eng	58.89	58.40	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.34			no	no	0.973 0.973 0.976 0.985 0.976 0.973 0.964 0.978	-0.013 -0.011 -0.010 -0.011	0.048 0.046 0.046 0.047
01:48:26.98	32992	280.0	2.99	-9.14 -9.14	-0.53	79.80	eng	58.89	58.40	Oper	0.70	0.35	1.33	1.33	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.34	norm		no	no	0.971 0.980 0.978 0.962 0.973 0.955 0.973 0.973	-0.009 -0.014 -0.014 -0.011	0.045 0.044 0.046 0.041
01:48:27.98	32992	280.0	2.99	-9.14 -9.14	-0.35	79.80	eng	58.89	58.45	Oper	0.70	0.35	1.33	1.34	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.34			no	no	0.969 0.987 0.964 0.971 0.978 0.964 0.976 0.973	-0.013 -0.013 -0.008 -0.013	0.047 0.047 0.046 0.046
01:48:28.98	32992	280.0	2.99	-9.14 -9.14	-0.35	79.80	eng	58.89	58.45	Oper	0.70	0.35	1.33	1.34	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.16	norm		no	no	0.973 0.980 0.964 0.989 0.969 0.976 0.971 0.973	-0.009 -0.011 -0.014 -0.009	0.047 0.043 0.045 0.046
01:48:29.98	32992	280.0	2.99	-9.14 -9.14	-0.35	79.80	eng	58.89	58.45	Oper	0.70	0.35	1.33	1.34	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.34			no	no	0.962 0.973 0.985 0.962 0.971 0.973 0.957 0.980	-0.011 -0.016 -0.015 -0.008	0.045 0.046 0.045 0.045

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:48:30.98	32992	280.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.93	58.45	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34		norm	no	no	0.964 0.971 0.973 0.971 0.971 0.976 0.973 0.973	-0.014 -0.009 -0.007 -0.013	0.046 0.046 0.047 0.046
01:48:31.98	32992	280.0	2.99	-9.14 -9.14	-0.18	79.80	eng	58.93	58.45	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.982 0.971 0.980 0.969 0.976 0.971 0.973 0.973	-0.011 -0.010 -0.016 -0.011	0.046 0.045 0.047 0.047
01:48:32.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.93	58.45	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	4.0	1.23	1.58	1.93	3.34	norm		no	no	0.973 0.973 0.976 0.964 0.976 0.976 0.964 0.964	-0.008 -0.017 -0.012 -0.011	0.046 0.047 0.046 0.046
01:48:33.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.93	58.49	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.964 0.964 0.957 0.976 0.973 0.978 0.976 0.971	-0.017 -0.007 -0.014 -0.012	0.048 0.047 0.046 0.046
01:48:34.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.80	eng	58.97	58.49	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16	norm		no	no	0.964 0.976 0.971 0.979 0.971 0.979 0.973 0.973	-0.009 -0.016 -0.007 -0.005	0.046 0.045 0.047 0.045
01:48:35.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.97	58.54	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.962 0.982 0.973 0.976 0.976 0.982 0.964 0.980	-0.011 -0.013 -0.013 -0.014	0.045 0.047 0.046 0.047
01:48:36.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.97	58.49	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.973 0.969 0.969 0.962 0.969 0.978 0.964 0.980	-0.009 -0.009 -0.010 -0.010	0.044 0.046 0.045 0.047
01:48:37.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	58.97	58.54	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.976 0.969 0.973 0.964 0.971 0.989 0.989	-0.010 -0.011 -0.011 -0.011	0.046 0.047 0.048 0.045
01:48:38.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	59.02	58.54	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.976 0.969 0.969 0.978 0.962 0.969 0.973 0.982	-0.011 -0.007 -0.012 -0.009	0.047 0.045 0.046 0.046
01:48:39.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	59.02	58.54	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.976 0.978 0.985 0.976 0.973 0.964 0.976 0.973	-0.010 -0.016 -0.010 -0.011	0.048 0.047 0.047 0.044

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:48:40.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	59.02	58.54	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.980 0.980 0.978 0.973 0.976 0.971 0.964 0.978	-0.019 -0.013 -0.011 -0.013 0.047	0.046 0.046 0.046
01:48:41.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	59.02	58.54	Oper	0.70	0.35	1.34	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.976 0.980 0.980 0.971 0.976 0.976 0.973 0.973	-0.009 -0.014 -0.011 -0.010	0.046 0.045 0.047 0.047
01:48:42.98	32992	280.0	2.99	-9.14 -9.14	0.18	79.98	eng	59.06	58.62	Oper	0.70	0.35	1.34	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.964 0.964 0.976 0.976 0.980 0.985 0.978 0.969	-0.014 -0.012 -0.009 -0.010	0.045 0.047 0.045 0.047
01:48:43.98	32992	280.0	2.99	-9.14 -9.14	0.18	79.98	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.976 0.971 0.960 0.980 0.976 0.982 0.982 0.982	-0.010 -0.014 -0.011 -0.004	0.047 0.045 0.046 0.047
01:48:44.98	32992	280.0	2.99	-9.14 -9.14	0.18	79.98	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.973 0.971 0.962 0.969 0.971 0.973 0.969 0.960	-0.014 -0.014 -0.013 -0.012	0.046 0.049 0.047 0.046
01:48:45.98	32992	280.0	2.99	-9.14 -9.14	0.18	79.98	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.971 0.962 0.973 0.964 0.966 0.982 0.973 0.973	-0.010 -0.009 -0.016 -0.007	0.047 0.044 0.048 0.045
01:48:46.98	32992	281.0	2.99	-9.14 -9.14	0.18	79.98	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.969 0.971 0.971 0.973 0.976 0.973 0.973 0.982	-0.013 -0.010 -0.012 -0.016	0.046 0.046 0.046 0.048
01:48:47.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.964 0.976 0.973 0.966 0.980 0.973 0.976 0.969	-0.008 -0.009 -0.008 -0.007	0.048 0.046 0.047 0.044
01:48:48.98	32992	281.0	2.99	-9.14 -9.14	0.00	79.98	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.964 0.962 0.980 0.976 0.971 0.971 0.976 0.973	-0.016 -0.010 -0.009 -0.013	0.045 0.046 0.045 0.047
01:48:49.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.962 0.971 0.973 0.962 0.985 0.969 0.966 0.973	-0.009 -0.016 -0.014 -0.011	0.047 0.048 0.046 0.049

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:48:50.98	32992	280.0	2.99	-9.14 -9.14	0.00	79.98	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.05	1.58	1.93	3.16		norm	no	no	0.966 0.960 0.962 0.971 0.969 0.962 0.971 0.973	-0.010 -0.013 -0.009 -0.008	0.047 0.044 0.046 0.048
01:48:51.98	32992	280.0	2.99	-9.14 -9.14	-0.18	79.98	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.34			no	no	0.971 0.976 0.966 0.966 0.962 0.966 0.969 0.973	-0.012 -0.014 -0.010 -0.009	0.048 0.045 0.046 0.046
01:48:52.98	32992	280.0	2.99	-9.14 -9.14	-0.18	80.16	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.34	norm		no	no	0.964 0.964 0.966 0.976 0.960 0.964 0.971 0.966	-0.011 -0.010 -0.004 -0.011	0.048 0.047 0.044 0.048
01:48:53.98	32992	280.0	2.99	-9.14 -9.14	-0.18	80.16	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.34			no	no	0.964 0.971 0.976 0.973 0.989 0.976 0.978 0.982	-0.014 -0.011 -0.015 -0.010	0.048 0.044 0.049 0.047
01:48:54.98	32992	280.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.34		norm	no	no	0.971 0.973 0.962 0.976 0.966 0.978 0.979 0.969	-0.015 -0.011 -0.011 -0.015	0.046 0.047 0.047 0.048
01:48:55.98	32992	280.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.16			no	no	0.966 0.971 0.962 0.964 0.962 0.966 0.973 0.976	-0.011 -0.011 -0.010 -0.010	0.047 0.045 0.047 0.046
01:48:56.98	32992	280.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.34	norm		no	no	0.982 0.978 0.985 0.973 0.973 0.978 0.973 0.978	-0.009 -0.018 -0.007 -0.011	0.046 0.046 0.047 0.045
01:48:57.98	32992	280.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.16			no	no	0.976 0.973 0.971 0.980 0.971 0.978 0.969 0.978	-0.008 -0.007 -0.013 -0.009	0.047 0.048 0.047 0.049
01:48:58.98	32992	280.0	2.99	-9.14 -9.14	0.18	80.16	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.16		norm	no	no	0.978 0.976 0.987 0.973 0.971 0.989 0.978 0.980	-0.012 -0.013 -0.009 -0.016	0.047 0.047 0.046 0.049
01:48:59.98	32992	280.0	2.99	-9.14 -9.14	0.35	80.16	eng	59.15	58.67	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.16			no	no	0.998 0.976 0.978 0.978 0.973 0.980 0.978 0.989	-0.014 -0.009 -0.014 -0.009	0.047 0.051 0.047 0.047

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:49:00.98	32992	280.0	2.99	-9.14 -9.14	0.35	80.16	eng	59.19	58.71	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.973 0.966 0.978 0.971 0.976 0.980 0.980 0.980	-0.009 -0.014 -0.011 -0.013	0.046 0.048 0.048 0.046
01:49:01.98	32992	280.0	2.99	-9.14 -9.14	0.35	80.16	eng	59.19	58.75	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.976 0.978 0.978 0.969 0.978 0.985 0.973 0.973	-0.014 -0.009 -0.014 -0.010	0.048 0.049 0.047 0.047
01:49:02.98	32992	280.0	2.99	-9.14 -9.14	0.35	80.16	eng	59.24	58.75	Oper	0.70	0.35	1.34	1.34	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.976 0.973 0.971 0.971 0.969 0.973 0.973 0.978	-0.009 -0.016 -0.007 -0.017	0.044 0.048 0.045 0.047
01:49:03.98	32992	280.0	2.99	-9.14 -9.14	0.35	80.16	eng	59.24	58.75	Oper	0.70	0.35	1.34	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.971 0.976 0.973 0.973 0.976 0.985 0.980 0.976	-0.010 -0.011 -0.015 -0.011	0.049 0.045 0.046 0.049
01:49:04.98	32992	280.0	2.99	-9.14 -9.14	0.35	80.16	eng	59.24	58.75	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.976 0.976 0.973 0.976 0.978 0.976 0.985 0.973	-0.010 -0.008 -0.007 -0.017	0.048 0.046 0.046 0.047
01:49:05.98	32992	280.0	2.99	-9.14 -9.14	0.18	80.16	eng	59.24	58.80	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.962 0.969 0.969 0.973 0.957 0.971 0.971 0.971	-0.009 -0.010 -0.013 -0.013	0.045 0.044 0.048 0.046
01:49:06.98	32992	280.0	2.99	-9.14 -9.14	0.18	80.16	eng	59.24	58.80	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16	norm		no	no	0.964 0.962 0.964 0.964 0.969 0.982 0.964 0.971	-0.015 -0.013 -0.011 -0.013	0.046 0.048 0.046 0.045
01:49:07.98	32992	279.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.28	58.80	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.976 0.976 0.976 0.978 0.980 0.973 0.978 0.976	-0.009 -0.007 -0.012 -0.011	0.048 0.046 0.047 0.044
01:49:08.98	32992	280.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.28	58.84	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16	norm		no	no	0.978 0.964 0.973 0.976 0.982 0.985 0.969 0.962	-0.009 -0.009 -0.010 -0.017	0.048 0.048 0.045 0.048
01:49:09.98	32992	280.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.28	58.84	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.969 0.978 0.969 0.969 0.969 0.964 0.980 0.973	-0.009 -0.012 -0.007 -0.007	0.047 0.047 0.050 0.047

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:49:10.98	32992	279.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.33	58.84	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16		norm	no	no	0.976 0.960 0.971 0.978 0.980 0.982 0.980 0.973	-0.011 -0.010 -0.010 -0.013	0.046 0.048 0.045 0.047
01:49:11.98	32992	279.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.33	58.84	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.34			no	no	0.964 0.976 0.978 0.978 0.971 0.973 0.971 0.982	-0.011 -0.016 -0.014 -0.010	0.044 0.047 0.047 0.046
01:49:12.98	32992	279.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.33	58.84	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.34	norm		no	no	0.964 0.955 0.969 0.985 0.969 0.973 0.962 0.980	-0.010 -0.009 -0.012 -0.008	0.046 0.045 0.047 0.048
01:49:13.98	32992	280.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.33	58.84	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.16			no	no	0.971 0.976 0.971 0.971 0.976 0.969 0.973 0.975	-0.007 -0.009 -0.008 -0.009	0.046 0.047 0.047 0.049
01:49:14.98	32992	279.0	2.99	-9.14 -9.84	0.18	80.16	eng	59.33	58.89	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34		norm	no	no	0.969 0.978 0.971 0.978 0.971 0.976 0.973 0.987	-0.011 -0.009 -0.014 -0.009	0.052 0.041 0.046 0.047
01:49:15.98	32992	279.0	2.99	-9.14 -9.14	0.18	80.16	eng	59.37	58.89	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.971 0.978 0.976 0.955 0.980 0.973 0.980 0.978	-0.011 -0.011 -0.008 -0.014	0.048 0.048 0.045 0.047
01:49:16.98	32992	280.0	2.99	-9.14 -9.14	0.18	80.16	eng	59.41	58.93	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.973 0.976 0.982 0.957 0.973 0.980 0.976 0.973	-0.007 -0.015 -0.009 -0.011	0.047 0.049 0.046 0.046
01:49:17.98	32992	280.0	2.99	-9.14 -9.14	0.00	80.16	eng	59.41	58.97	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.969 0.969 0.971 0.976 0.964 0.969 0.987 0.982	-0.018 -0.008 -0.015 -0.010	0.048 0.051 0.047 0.049
01:49:18.98	32992	279.0	2.99	-9.14 -9.14	0.00	80.33	eng	59.41	58.97	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16		norm	no	no	0.973 0.962 0.973 0.964 0.964 0.964 0.966 0.964	-0.010 -0.015 -0.011 -0.016	0.046 0.049 0.048 0.047
01:49:19.98	32992	279.0	2.99	-9.14 -9.14	0.00	80.33	eng	59.46	58.97	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.964 0.964 0.971 0.966 0.971 0.964 0.960 0.976	-0.011 -0.009 -0.014 -0.007	0.049 0.047 0.049 0.046

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01:49:20.98	32992	279.0	2.99	-9.14 -9.14	0.00	80.33	eng	59.46	58.97	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.964 0.973 0.978 0.971 0.960 0.976 0.980 0.980	-0.015 -0.008 -0.015 -0.013	0.048 0.048 0.047 0.050
01:49:21.98	32992	279.0	2.99	-9.14 -9.14	-0.18	80.33	eng	59.46	59.02	Oper	0.70	0.35	1.32	1.35	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.16			no	no	0.982 0.971 0.971 0.976 0.980 0.976 0.973 0.976	-0.010 -0.014 -0.010 -0.016	0.046 0.049 0.049 0.048
01:49:22.98	32992	279.0	2.99	-9.14 -9.14	-0.18	80.33	eng	59.50	59.02	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.980 0.976 0.976 0.969 0.969 0.978 0.973 0.973	-0.013 -0.013 -0.015 -0.008	0.050 0.047 0.048 0.048
01:49:23.98	32992	279.0	2.99	-9.14 -9.14	-0.18	80.33	eng	59.50	59.02	Oper	0.70	0.35	1.35	1.35	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.16			no	no	0.973 0.973 0.978 0.973 0.969 0.969 0.973 0.985	-0.016 -0.013 -0.011 -0.010	0.049 0.048 0.048 0.050
01:49:24.98	32992	279.0	2.99	-9.14 -9.14	-0.35	80.33	eng	59.55	59.06	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.16	norm		no	no	0.978 0.969 0.973 0.973 0.966 0.978 0.980 0.985	-0.006 -0.015 -0.012 -0.013	0.048 0.050 0.048 0.048
01:49:25.98	32992	279.0	2.99	-9.14 -9.14	-0.35	80.33	eng	59.55	59.11	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.34			no	no	0.969 0.971 0.976 0.966 0.969 0.969 0.971 0.969	-0.014 -0.012 -0.013 -0.012	0.049 0.046 0.048 0.048
01:49:26.98	32992	279.0	2.99	-9.14 -9.14	-0.35	80.33	eng	59.59	59.11	Oper	0.70	0.35	1.35	1.36	Eng Run	Eng Run	3.9	1.05	1.93	1.93	3.34	norm		no	no	0.969 0.973 0.971 0.966 0.971 0.966 0.971 0.976	-0.013 -0.010 -0.016 -0.014	0.048 0.049 0.047 0.047
01:49:27.98	32992	279.0	2.99	-9.14 -9.14	-0.35	80.33	eng	59.59	59.11	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.05	1.93	1.93	3.16			no	no	0.978 0.964 0.971 0.966 0.964 0.964 0.976 0.969	-0.013 -0.013 -0.011 -0.013	0.049 0.047 0.048 0.048
01:49:28.98	32992	279.0	2.99	-9.14 -9.14	-0.18	80.33	eng	59.59	59.15	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.05	1.93	1.93	3.16	norm		no	no	0.957 0.966 0.966 0.966 0.962 0.955 0.969 0.976	-0.013 -0.007 -0.013 -0.011	0.048 0.048 0.048 0.048
01:49:29.98	32992	279.0	2.99	-9.14 -9.14	-0.18	80.33	eng	59.63	59.15	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.34			no	no	0.969 0.957 0.973 0.969 0.962 0.978 0.964 0.971	-0.016 -0.008 -0.014 -0.011	0.046 0.051 0.047 0.047

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01:49:30.98	32992	279.0	2.99	-9.14 -9.14	0.00	80.33	eng	59.63	59.15	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.05	1.76	1.93	3.16		norm	no	no	0.982 0.971 0.971 0.964 0.971 0.969 0.978 0.978	-0.007 -0.016 -0.009 -0.016	0.048 0.047 0.047 0.048
01:49:31.98	32992	279.0	2.99	-9.14 -9.14	0.18	80.33	eng	59.68	59.15	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.34			no	no	0.973 0.969 0.976 0.973 0.971 0.976 0.955 0.973	-0.005 -0.013 -0.008 -0.010	0.048 0.047 0.047 0.048
01:49:32.98	32992	279.0	2.99	-9.14 -9.14	0.35	80.33	eng	59.68	59.19	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.964 0.971 0.980 0.982 0.976 0.978 0.971 0.978	-0.008 -0.006 -0.016 -0.008	0.048 0.048 0.048 0.049
01:49:33.98	32992	279.0	2.99	-9.14 -9.14	0.53	80.51	eng	59.72	59.24	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.41	1.58	1.93	3.16			no	no	0.973 0.973 0.980 0.980 0.976 0.976 0.982 0.989	-0.014 -0.004 -0.011 -0.013	0.048 0.049 0.048 0.049
01:49:34.98	32992	279.0	2.99	-9.14 -9.14	0.53	80.51	eng	59.72	59.24	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.16		norm	no	no	0.973 0.982 0.976 0.976 0.973 0.971 0.976 0.978	-0.011 -0.009 -0.011 -0.015	0.048 0.046 0.045 0.050
01:49:35.98	32992	279.0	2.99	-9.14 -9.14	0.53	80.51	eng	59.72	59.24	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.16			no	no	0.978 0.971 0.973 0.960 0.976 0.982 0.978 0.980	-0.008 -0.015 -0.008 -0.013	0.048 0.048 0.050 0.047
01:49:36.98	32992	279.0	2.99	-9.14 -9.14	0.35	80.51	eng	59.72	59.24	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.16	norm		no	no	0.978 0.982 0.980 0.980 0.976 0.980 0.980 0.976	-0.010 -0.006 -0.015 -0.006	0.051 0.047 0.049 0.049
01:49:37.98	32992	279.0	2.99	-9.14 -9.14	0.35	80.51	eng	59.77	59.28	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.976 0.976 0.982 0.976 0.976 0.978 0.980 0.985	-0.013 -0.007 -0.013 -0.010	0.048 0.048 0.048 0.048
01:49:38.98	32992	279.0	2.99	-9.14 -9.14	0.35	80.51	eng	59.72	59.28	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.16		norm	no	no	0.978 0.971 0.976 0.989 0.978 0.980 0.978 0.978	-0.010 -0.010 -0.009 -0.011	0.049 0.050 0.048 0.048
01:49:39.98	32992	280.0	2.99	-9.14 -9.14	0.18	80.51	eng	59.77	59.28	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.41	1.41	1.93	3.34			no	no	0.976 0.978 0.987 0.982 0.955 0.976 0.980 0.978	-0.011 -0.012 -0.010 -0.013	0.048 0.049 0.049 0.047

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01:49:40.98	32992	280.0	2.99	-9.14 -9.14	0.00	80.51	eng	59.77	59.28	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	1.8	1.23	1.58	1.93	3.34	norm		no	no	0.978 0.982 0.976 0.973 0.978 0.976 0.976 0.992	-0.008 -0.009 -0.014 -0.007	0.051 0.047 0.051 0.050
01:49:41.98	32992	280.0	2.99	-9.14 -9.14	-0.18	80.51	eng	59.77	59.24	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34			no	no	0.976 0.971 0.976 0.982 0.978 0.978 0.976 0.978	-0.015 -0.008 -0.011 -0.009	0.048 0.048 0.049 0.050
01:49:42.98	32992	280.0	2.99	-9.14 -9.14	-0.18	80.51	eng	59.77	59.28	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.23	1.58	1.93	3.34	norm		no	no	0.971 0.976 0.982 0.973 0.976 0.980 0.973 0.978	-0.011 -0.009 -0.010 -0.016	0.048 0.048 0.048 0.048
01:49:43.98	32992	280.0	2.99	-9.14 -9.14	-0.35	80.51	eng	59.77	59.24	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.23	1.76	1.93	3.16			no	no	0.994 0.976 0.976 0.973 0.973 0.969 0.969	-0.010 -0.014 -0.008 -0.012	0.047 0.049 0.049 0.049
01:49:44.98	32992	280.0	2.99	-9.14 -9.14	-0.35	80.51	not	59.77	59.28	Oper	0.70	0.35	1.36	1.36	Eng Run	Eng Run	3.9	1.76	1.76	1.93	3.16	norm		no	no	0.975 0.982 0.973 0.980 0.976 0.962 0.960	-0.009 -0.010 -0.010 -0.006	0.048 0.048 0.048 0.048
01:49:45.98	32992	280.0	2.99	-9.49 -9.49	-0.53	80.51	not	59.77	59.28	Oper	0.53	-0.18	1.36	1.36	Eng Run	Eng Run	3.9	2.11	0.88	1.93	3.16			no	no	0.950 0.941 0.937 0.930 0.927 0.909 0.914 0.914	-0.010 -0.010 -0.016 -0.007	0.046 0.045 0.044 0.046
01:49:46.98	32992	280.0	2.64	-9.84 -9.84	-1.05	80.51	not	59.77	59.28	Oper	0.53	-0.35	1.36	1.36	Eng Run	Eng Run	3.9	2.11	0.53	1.93	3.16	norm		no	no	0.911 0.898 0.895 0.893 0.893 0.893 0.895 0.898	-0.015 -0.010 -0.011 -0.014	0.044 0.042 0.043 0.043
01:49:47.98	32992	280.0	2.29	-9.84 -9.84	-1.76	80.33	not	59.77	59.28	Oper	0.53	-0.18	1.36	1.36	Eng Run	Eng Run	3.9	2.11	0.53	1.93	3.16			no	no	0.873 0.907 0.900 0.914 0.898 0.900 0.902 0.900	-0.008 -0.015 -0.006 -0.009	0.042 0.044 0.043 0.043
01:49:48.98	32992	280.0	2.29	-9.84 -9.84	-2.64	80.33	not	59.77	59.28	Oper	0.53	-0.18	1.36	1.36	Eng Run	Eng Run	3.9	2.11	0.53	1.93	3.16	norm		no	no	0.900 0.905 0.927 0.907 0.911 0.909 0.921 0.934	-0.012 -0.004 -0.015 -0.007	0.042 0.043 0.045 0.042
01:49:49.98	32992	280.0	2.11	-9.49 -9.49	-3.16	80.16	not	59.72	59.28	Oper	0.53	-0.18	1.36	1.36	Eng Run	Eng Run	3.9	2.11	0.53	1.93	3.16			no	no	0.914 0.911 0.916 0.911 0.911 0.907 0.895 0.911	-0.015 -0.006 -0.008 -0.007	0.043 0.046 0.043 0.043

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Radar Local Time (EST) (hh:mm:ss)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:49:50.98	32960	280.0	1.93	-9.84 -9.84	-3.87	79.98	not	59.72	59.19	Oper	0.53	-0.35	1.36	1.36	Eng Run	Eng Run	3.9	2.11	0.53	1.93	3.16		norm	no	no	0.902 0.905 0.911 0.907 0.902 0.909 0.902 0.905	-0.016 -0.009 -0.009 -0.010	0.040 0.042 0.042 0.044
01:49:51.98	32960	280.0	1.76	-9.84 -9.84	-4.57	79.80	not	59.63	57.30	Oper	0.53	-0.35	1.36	1.36	Eng Run	Eng Run	3.9	2.11	0.53	1.93	3.16			no	no	0.911 0.900 0.909 0.905 0.891 0.898 0.900 0.895	-0.005 -0.014 -0.008 -0.013	0.043 0.042 0.043 0.041
01:49:52.98	32928	281.0	1.41	-9.84 -9.84	-5.45	79.63	not	36.69	35.95	Oper	0.35	-0.35	1.35	1.24	Eng Run	Eng Run	4.0	1.93	0.53	1.93	3.16	norm		no	no	0.889 0.884 0.886 0.889 0.882 0.879 0.856 0.868	-0.012 -0.012 -0.013 -0.012	0.040 0.035 0.035 0.028
01:49:53.98	32928	281.0	1.05	-10.55 -12.66	-5.98	79.45	not	35.82	33.75	Oper	-0.18	-2.29	1.17	1.08	Eng Run	Eng Run	4.0	1.76	1.41	1.93	3.16			no	no	0.900 0.884 0.820 0.758 0.655 0.570 0.479 0.397	-0.016 -0.010 -0.011 -0.004	0.017 0.009 0.005 0.002
01:49:54.98	32864	281.0	-1.41	-15.12 -16.17	-6.33	79.63	not	35.82	33.93	Oper	-2.81	-3.34	1.03	0.95	Eng Run	Eng Run	4.0	1.93	0.88	1.76	3.16	norm		no	no	0.298 0.227 0.172 0.124 0.076 0.071 0.066 0.078	-0.008 -0.005 -0.012 -0.008	-0.005 -0.009 -0.010 -0.011
01:49:55.98	32832	282.0	-5.45	-15.82 -15.12	-6.50	79.63	not	34.58	33.79	Oper	-2.64	-2.99	0.91	0.87	Eng Run	Eng Run	4.0	1.93	0.70	1.76	3.16			no	no	0.089 0.110 0.142 0.147 0.172 0.213 0.236 0.261	-0.009 -0.012 -0.009 -0.008	-0.022 -0.021 -0.024 -0.028
01:49:56.98	32768	283.0	-6.50	-15.12 -15.12	-6.68	79.45	not	35.16	34.23	Oper	-2.99	-3.69	0.83	0.82	Eng Run	Eng Run	4.0	1.76	0.70	1.93	3.16	norm		no	no	0.270 0.273 0.266 0.273 0.245 0.227 0.202 0.197	-0.007 -0.012 -0.012 -0.010	-0.029 -0.027 -0.031 -0.036
01:49:57.98	32672	284.0	-8.79	-15.82 -16.17	-7.03	79.45	not	34.28	33.49	Oper	-3.16	-3.87	0.79	0.78	Eng Run	Eng Run	4.0	1.76	0.70	1.93	3.16			no	no	0.185 0.144 0.147 0.131 0.119 0.114 0.110 0.117	-0.010 -0.008 -0.010 -0.011	-0.034 -0.032 -0.035 -0.037
01:49:58.98	32544	286.0	-10.72	-16.17 -16.17	-7.56	79.63	not	34.41	33.49	Oper	-3.34	-3.87	0.77	0.76	Eng Run	Eng Run	4.0	1.58	0.88	1.93	3.16	norm		no	no	0.110 0.117 0.110 0.121 0.117 0.128 0.121 0.140	-0.006 -0.010 -0.008 -0.010	-0.041 -0.040 -0.041 -0.043
01:49:59.98	32384	289.0	-13.01	-15.82 -15.82	-7.91	79.63	not	34.45	33.49	Oper	-3.34	-3.87	0.75	0.75	Eng Run	Eng Run	4.0	1.58	0.88	1.93	3.16			no	no	0.142 0.147 0.147 0.144 0.151 0.142 0.151 0.153	-0.007 -0.010 -0.007 -0.009	-0.043 -0.042 -0.042 -0.045

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Radar Local Time (EST)	Pressure Altitude (ft)	Airspeed Computed (kt)	Pitch (deg)	Angle of Attack (deg)	Roll (deg)	Mag. Heading (deg)	A/P Commd Center	TRA Eng1 (deg)	TRA Eng2 (deg)	TMC A/T Engaged	Elev. Left (deg)	Elev. Right (deg)	EPR Engine #1	EPR Engine #2	Eng Start Lever Left	Eng Start Lever Right	Spd Brk Handle (%)	Aileron Pos. LT INBD (deg)	Aileron Pos. RT INBD (deg)	Aileron Pos. LT OUTBD (deg)	Aileron Pos. RT OUTBD (deg)	Eng Lo Oil Prs Left	Eng Lo Oil Prs Right	Mast. Warn. Capt	Mast. Warn. F/O	Vert. Accel (g's)	Lat. Accel (g's)	Long. Accel (g's)
01:50:00.98	32224	292.0	-14.41	-15.82 -15.82	-8.26	79.63	not	34.72	33.53	Oper	-3.34	-3.87	0.73	0.74	Eng Run	Eng Run	4.0	1.58	1.05	1.93	3.34	norm		no	no	0.153 0.147 0.142 0.149 0.142 0.142 0.137	-0.013 -0.014 -0.020 -0.013	-0.047 -0.047 -0.047 -0.046
01:50:01.98	32000	295.0	-16.70	-16.17 -15.82	-8.61	79.80	not	34.50	33.49	Oper	-3.34	-3.87	0.72	0.73	Eng Run	Eng Run	4.0	1.58	1.05	1.93	3.34			no	no	0.135 0.140 0.135 0.144 0.147 0.144 0.149 0.156	-0.013 -0.011 -0.010 -0.009	-0.046 -0.045 -0.048 -0.049
01:50:02.98	31776	299.0	-18.28	-15.82 -15.82	-9.49	79.80	not	34.45	33.53	Oper	-3.16	-3.69	0.72	0.72	Eng Run	Eng Run	4.0	1.58	1.05	1.93	3.34	norm		no	no	0.160 0.137 0.156 0.169 0.167 0.172 0.179 0.176	-0.013 -0.008 -0.015 -0.013	-0.045 -0.049 -0.050 -0.052
01:50:03.98	31520	303.0	-21.09	-15.82 -15.82	-10.02	79.98	not	34.50	33.53	Oper	-3.16	-3.69	0.71	0.71	Eng Run	Eng Run	4.0	1.58	1.05	1.93	3.34			no	no	0.179 0.190 0.188 0.188 0.181 0.185 0.183 0.185	-0.013 -0.014 -0.010 -0.007	-0.047 -0.057 -0.056 -0.056
01:50:04.98	31264	308.0	-22.50	-16.17 -16.17	-10.72	79.98	not	34.45	33.57	Oper	-3.16	-3.69	0.69	0.70	Eng Run	Eng Run	4.0	-0.70	1.23	2.11	3.34	norm		no	no	0.175 0.176 0.172 0.174 0.167 0.158 0.142 0.128	-0.003 0.005 -0.010 0.005	-0.058 -0.056 -0.058 -0.063
01:50:05.98	30944	315.0	-24.79	-16.87 -17.23	-10.20	79.98	not	34.63	34.01	Oper	-3.69	-4.39	0.67	0.67	Eng Run	Eng Run	4.0	0.53	2.81	2.11	3.34			no	no	0.094 0.085 0.057 0.027 0.009 -0.005 -0.011 -0.055	0.004 -0.005 -0.001 -0.002	-0.063 -0.065 -0.068 -0.066
01:50:06.98	30592	322.0	-26.89	-17.93 -17.93	-8.96	79.98	not	35.68	34.85	Oper	-4.22	-4.75	0.65	0.65	Eng Run	Eng Run	4.0	0.88	2.29	2.11	3.34	norm		no	no	-0.080 -0.082 -0.096 -0.101 -0.117 -0.115 -0.119 -0.110	0.003 -0.002 -0.003 0.003	-0.069 -0.066 -0.067 -0.062
01:50:07.98	30208	330.0	-29.36	-17.93 -17.93	-7.73	79.98	not	36.04	35.16	Oper	-4.22	-4.92	0.64	0.63	Eng Run	Eng Run	4.0	0.70	1.76	2.11	3.52			warning	warning	-0.085 -0.082 -0.082 -0.080 -0.096 -0.103 -0.135 -0.160	-0.002 -0.019 -0.002 0.005	-0.075 -0.075 -0.080 -0.084
01:50:08.98	29728	339.0	-30.23	-18.28 -18.28	-6.50	79.80	not	36.17	35.16	Oper	-4.75	-5.45	0.61	0.60	Eng Run	Eng Run	4.0	1.23	1.76	2.11	3.52	To		warning	warning	-0.169 -0.206 -0.208 -0.222 -0.227 -0.224 -0.202 -0.183	0.004 -0.006 0.011 -0.006	-0.083 -0.083 -0.091 -0.090
01:50:09.98	29248	346.0	-32.70	-18.28 -17.93	-5.98	79.80	not	36.17	35.07	Oper	-4.75	-5.10	0.60	0.60	Eng Run	Eng Run	4.0	1.23	1.41	2.11	3.52			warning	warning	-0.160 -0.147 -0.128 -0.124 -0.096 -0.101 -0.092 -0.089	-0.001 -0.002 -0.009 -0.013	-0.095 -0.102 -0.105 -0.107

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01:50:10.98	28672	354.0	-34.10	-17.58 -17.58	-5.45	79.63	not	35.90	35.73	Oper	-4.57	-4.92	0.59	0.59	Eng Run	Eng Run	4.0	1.05	1.05	2.11	3.52		to	warning	warning	-0.096 -0.080 -0.078 -0.057 -0.053 -0.039 -0.046 -0.073	-0.016 -0.008 -0.011 -0.004	-0.110 -0.110 -0.122 -0.123
01:50:11.98	28096	361.0	-36.04	-17.58 -17.58	-5.62	79.80	not	40.39	40.56	Oper	-4.22	-4.57	0.56	0.56	Eng Run	Eng Run	4.0	1.23	1.05	2.11	3.34			warning	warning	-0.053 -0.053 -0.041 -0.039 -0.053 -0.050 -0.053 -0.057	-0.009 -0.013 -0.009 -0.009	-0.127 -0.138 -0.133 -0.144
01:50:12.98	27456	368.0	-37.44	-17.58 -17.58	-6.15	79.98	not	34.28	33.49	Oper	-4.39	-4.75	0.58	0.56	Eng Run	Eng Run	4.0	1.23	1.41	1.76	2.99	to		warning	warning	-0.071 -0.073 -0.103 -0.137 -0.144 -0.137 -0.133 -0.142	-0.003 -0.011 -0.007 0.000	-0.152 -0.155 -0.163 -0.168
01:50:13.98	26752	376.0	-39.55	-17.58 -16.52	-6.86	80.33	not	35.90	37.53	Oper	-4.57	-4.75	0.55	0.54	Eng Run	Eng Run	4.0	1.23	1.05	0.70	2.11			warning	warning	-0.153 -0.144 -0.192 -0.110 -0.126 -0.041 -0.041 0.027	-0.005 0.020 -0.017 -0.012	-0.185 -0.198 -0.209 -0.214
01:50:14.98	26016	384.0	-40.25	-15.82 -14.77	-7.56	80.51	not	38.67	34.85	Oper	-4.22	-4.22	0.54	0.56	Eng Run	Eng Run	4.0	-2.46	4.57	1.05	2.11	to		warning	warning	0.066 0.133 0.149 0.181 0.218 0.266 0.300 0.325	0.003 -0.002 0.003 0.004	-0.232 -0.236 -0.250 -0.258
01:50:15.98	25280	393.0	-40.08	-14.06 -13.71	-6.86	80.33	not	34.67	34.06	Oper	-3.87	-3.69	0.55	0.56	Eng Run	Eng Run	4.0	-2.46	7.03	0.70	1.41			warning	warning	0.366 0.408 0.426 0.447 0.474 0.472 0.469 0.520	0.009 0.003 -0.007 -0.007	-0.270 -0.285 -0.299 -0.305
01:50:16.98	24512	400.0	-39.90	-12.66 -13.01	-4.75	79.98	not	33.97	33.57	Inop	-3.34	-2.99	0.55	0.56	Eng Run	Eng Run	4.2	-2.81	7.38	0.70	1.76	to		warning	warning	0.536 0.563 0.563 0.614 0.639 0.655 0.671 0.671	-0.008 -0.004 0.003 -0.006	-0.315 -0.321 -0.326 -0.336
01:50:17.98	23776	407.0	-39.73	-12.66 -11.95	-2.99	79.98	not	34.06	33.57	Inop	-2.81	-2.46	0.55	0.57	Eng Run	Eng Run	4.1	-4.39	8.79	3.87	5.10			warning	warning	0.669 0.680 0.694 0.728 0.769 0.815 0.847 0.877	-0.011 -0.011 -0.008 -0.009	-0.349 -0.356 -0.355 -0.359
01:50:18.98	23040	414.0	-39.20	-11.60 -11.60	0.35	79.98	not	33.88	33.53	Inop	-2.64	-1.76	0.56	0.58	Eng Run	Eng Run	4.0	-3.16	16.35	5.98	6.68	to		warning	warning	0.905 0.914 0.966 0.982 0.994 1.033 0.966 1.031	-0.008 -0.004 -0.002 -0.003	-0.366 -0.372 -0.377 -0.372
01:50:19.98	22304	421.0	-38.14	-10.55 -9.84	3.52	80.16	not	34.41	34.06	Inop	-1.23	-0.70	0.57	0.59	Eng Run	Eng Run	4.0	0.00	13.54	6.68	7.38			warning	warning	1.150 1.209 1.278 1.372 1.388 1.415 1.447 1.447	0.000 -0.005 -0.003 -0.006	-0.379 -0.384 -0.390 -0.387

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01:50:20.98	21600	429.0	-36.21	-9.14 -8.09	6.33	80.86	not	34.45	34.06	Inop	-0.18	0.35	0.58	0.60	Eng Run	Cutoff	4.0	3.69	10.37	7.21	8.09	norm		warning	warning	1.509 1.553 1.628 1.688 1.743 1.821 1.878 1.940	-0.011 -0.017 -0.019 -0.015	-0.379 -0.378 -0.390 -0.390
01:50:21.98	20928	435.0	-32.87	-7.73 -7.38	7.21	81.21	not	34.45	67.50	Inop	1.41	-0.35	0.59	1.50	Cutoff	Cutoff	4.0	5.45	8.44	8.61	8.61			warning	warning	1.979 2.004 2.011 2.011 2.038 2.047 2.070 2.091	-0.021 -0.009 -0.008 0.004	-0.392 -0.397 -0.396 -0.403
01:50:22.98	20288	441.0	-30.76	-6.68 -6.33	5.80	82.44	not	34.45	35.33	Inop	2.29	-0.35	0.59	0.54	Cutoff	Cutoff	4.0	6.68	8.96	9.32	9.32	norm		warning	warning	2.141 2.194 2.224 2.274 2.334 2.370 2.418 2.423	0.013 0.014 0.011 0.016	-0.405 -0.396 -0.389 -0.380
01:50:23.98	20000	441.0	-28.30	-6.33 -7.73	5.27	82.97	not	84.11	84.99	Inop	2.99	-0.88	0.53	0.50	Cutoff	Cutoff	4.0	6.86	9.67	9.84	9.49			warning	warning	2.430 2.434 2.423 2.359 2.324 2.182 2.109 1.921	0.015 0.008 0.011 0.011	-0.377 -0.378 -0.387 -0.390
01:50:24.98	19616	442.0	-27.42	-9.49 -10.20	5.27	83.14	not	85.30	85.12	Inop	1.05	-2.29	0.48	0.48	Cutoff	Cutoff	7.8	1.93	15.82	9.32	9.14	norm		warning	warning	1.771 1.603 1.477 1.369 1.363 1.335 1.331 1.335	0.020 0.039 0.031 0.044	-0.410 -0.420 -0.424 -0.414
01:50:25.98	19104	445.0	-27.77	-10.20 -9.14	6.50	83.32	not	85.30	85.12	Inop	0.88	-1.93	0.47	0.48	Cutoff	Cutoff	99.2	0.00	10.72	8.79	8.61			warning	warning	1.314 1.351 1.372 1.420 1.495 1.550 1.610 1.690	0.033 0.011 0.020 0.013	-0.410 -0.409 -0.410 -0.406
01:50:26.98	18784	448.0	-26.19	-8.79 -9.14	6.86	83.67	not	85.30	85.12	Inop	2.99	-2.11	0.47	0.48	Cutoff	Cutoff	99.2	0.18	6.68	8.96	8.79	norm		warning	warning	1.697 1.747 1.738 1.745 1.715 1.724 1.695 1.674	0.016 0.028 0.037 0.042	-0.407 -0.409 -0.416 -0.416
01:50:27.98	18304	453.0	-24.43	-9.14 -9.14	5.45	84.02	not	85.30	85.12	Inop	3.34	-2.99	0.47	0.47	Cutoff	Cutoff	99.2	-0.18	6.33	9.14	7.03			warning	warning	1.653 1.647 1.651 1.676 1.660 1.669 1.697 1.722	0.046 0.042 0.043 0.027	-0.418 -0.416 -0.412 -0.411
01:50:28.98	17920	456.0	-23.03	-8.79 -8.44	4.39	84.37	not	85.25	85.08	Inop	3.69	-3.16	0.47	0.48	Cutoff	Cutoff	99.2	0.00	6.50	8.09	3.87	norm		warning	warning	1.756 1.756 1.805 1.825 1.850 1.862 1.894 1.885	0.021 0.010 0.010 0.020	-0.406 -0.397 -0.394 -0.400
01:50:29.98	17536	461.0	-20.57	-8.44 -7.73	2.64	84.37	not	85.30	85.08	Inop	3.87	-2.29	0.47	0.48	Cutoff	Cutoff	99.1	1.76	7.03	8.09	4.22			warning	warning	1.914 1.935 1.958 1.992 2.038 2.093 2.160 2.134	0.033 0.032 0.024 0.022	-0.399 -0.398 -0.395 -0.394

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Vehicle Recorder Division RE-40 - NTSB

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Radarc Local Time (EST)	Pressure Altitude (ft)	TMC A/T Disconnect	Throttle Resolver Angle 1 (deg)	Throttle Resolver Angle 2 (deg)	N1 Eng1 (% RPM)	N1 Eng2 (% RPM)	N2 Eng1 (% RPM)	N2 Eng2 (% RPM)	Fuel1 Flow Eng1 (lbs/hr)	Fuel1 Flow Eng2 (lbs/hr)	Total Fuel Quantity (lbs)	EGT Eng1 (degC)	EGT Eng2 (degC)	EPR Eng1 (ratio)	EPR Eng2 (ratio)	Thrust Reverser Left	Thrust Reverser Right	T/R Right Trans	T/R Left Trans	Eng Fire Left	Eng Fire Right	Engine Start L	Engine Start R	Eng Lo Oil Pres L	Eng Lo Oil Pres R
01:38:00.98	25408	Not Disc	71.46	70.88	98.75	98.94	95.75	95.69	10832	11776		527.00	528.00	1.53	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:38:01.98	25440	Not Disc	71.46	70.88	98.69	98.88	95.69	95.75	10832	11760		527.00	528.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:38:02.98	25440	Not Disc	71.46	70.88	98.69	98.88	95.69	95.75	10832	11760		526.50	528.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:38:03.98	25472	Not Disc	71.46	70.88	98.69	98.88	95.69	95.75	10856	11752		527.00	528.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:38:04.98	25504	Not Disc	71.46	70.88	98.75	98.88	95.81	95.75	10824	11744		527.00	528.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:38:05.98	25504	Not Disc	71.46	70.88	98.75	98.81	95.75	95.75	10800	11728		527.00	528.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:06.98	25536	Not Disc	71.50	70.88	98.69	98.81	95.62	95.69	10808	11720		526.50	527.50	1.53	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:07.98	25568	Not Disc	71.46	70.88	98.62	98.81	95.69	95.62	10792	11688		526.50	527.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:38:08.98	25568	Not Disc	71.46	70.88	98.75	98.88	95.75	95.69	10784	11688		527.00	527.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:09.98	25600	Not Disc	71.46	70.88	98.75	98.88	95.69	95.69	10776	11680		527.00	527.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:10.98	25632	Not Disc	71.46	70.88	98.81	98.88	95.75	95.75	10792	11672		526.50	527.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:11.98	25632	Not Disc	71.46	70.88	98.75	98.81	95.69	95.75	10784	11672		526.50	527.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:38:12.98	25664	Not Disc	71.46	70.84	98.69	98.81	95.62	95.75	10728	11664		526.50	527.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:38:13.98	25664	Not Disc	71.46	70.88	98.62	98.81	95.62	95.69	10704	11648		526.50	527.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:14.98	25696	Not Disc	71.46	70.88	98.69	98.81	95.69	95.62	10720	11640		526.50	527.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:15.98	25728	Not Disc	71.46	70.88	98.69	98.81	95.62	95.62	10688	11640		526.50	527.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:38:16.98	25728	Not Disc	71.46	70.88	98.62	98.88	95.62	95.69	10688	11632		526.00	527.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:17.98	25760	Not Disc	71.46	70.88	98.69	98.88	95.62	95.75	10696	11640		526.00	527.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:18.98	25792	Not Disc	71.46	70.88	98.75	98.81	95.69	95.75	10680	11616		526.50	527.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:19.98	25792	Not Disc	71.46	70.88	98.75	98.81	95.69	95.75	10704	11616		526.00	527.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:38:20.98	25824	Not Disc	71.46	70.88	98.75	98.88	95.69	95.69	10760	11616		526.50	527.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:21.98	25856	Not Disc	71.46	70.88	98.81	98.88	95.69	95.62	10720	11616		526.50	527.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:22.98	25888	Not Disc	71.46	70.88	98.81	98.88	95.62	95.62	10680	11600		526.50	527.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:23.98	25888	Not Disc	71.46	70.88	98.69	98.94	95.62	95.62	10728	11592		526.00	527.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:38:24.98	25920	Not Disc	71.46	70.88	98.69	98.94	95.62	95.62	10688	11584		526.00	527.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:25.98	25952	Not Disc	71.46	70.88	98.69	98.88	95.62	95.62	10696	11576		526.00	527.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:26.98	25952	Not Disc	71.46	70.88	98.69	98.88	95.62	95.69	10680	11584		526.00	527.00	1.55	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:27.98	25984	Not Disc	71.46	70.88	98.75	98.88	95.62	95.69	10688	11584	130400	526.00	527.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:38:28.98	26016	Not Disc	71.46	70.88	98.75	98.81	95.62	95.69	10704	11576		526.00	526.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:29.98	26016	Not Disc	71.46	70.84	98.81	98.81	95.62	95.62	10712	11568		526.00	526.50	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:30.98	26048	Not Disc	71.46	70.88	98.69	98.81	95.62	95.56	10568	11544		526.00	526.50	1.55	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:31.98	26080	Not Disc	71.46	70.88	98.69	98.81	95.56	95.56	10600	11528		526.00	526.50	1.55	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:38:32.98	26080	Not Disc	71.46	70.88	98.75	98.81	95.62	95.56	10600	11528		526.00	526.00	1.55	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:38:33.98	26112	Not Disc	71.46	70.88	98.75	98.88	95.62	95.62	10560	11512		526.00	526.00	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:34.98	26144	Not Disc	71.50	70.88	98.81	98.88	95.56	95.62	10568	11504		525.50	526.00	1.54	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:35.98	26144	Not Disc	71.50	70.88	98.69	98.88	95.56	95.62	10624	11512		525.00	526.00	1.54	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:38:36.98	26176	Not Disc	71.50	70.88	98.69	98.88	95.50	95.62	10592	11504		525.00	526.00	1.54	1.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:37.98	26176	Not Disc	71.50	70.88	98.75	98.88	95.56	95.56	10640	11504		525.00	525.50	1.54	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:38.98	26208	Not Disc	71.50	70.88	98.69	98.88	95.56	95.56	10624	11504		525.00	525.50	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:39.98	26240	Not Disc	71.50	70.88	98.81	98.88	95.62	95.56	10608	11496		525.00	525.50	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:38:40.98	26240	Not Disc	71.50	70.88	98.75	98.94	95.62	95.56	10632	11488		525.00	525.50	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:41.98	26272	Not Disc	71.50	70.93	98.69	98.94	95.50	95.62	10632	11496		525.00	525.50	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:42.98	26304	Not Disc	71.54	70.93	98.75	98.94	95.50	95.62	10600	11472		524.50	525.50	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:43.98	26304	Not Disc	71.54	70.97	98.75	98.88	95.56	95.62	10568	11464		524.50	525.00	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:38:44.98	26336	Not Disc	71.59	70.97	98.69	98.88	95.56	95.62	10528	11448		524.00	525.00	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:45.98	26336	Not Disc	71.59	70.97	98.69	98.81	95.62	95.62	10496	11456		524.00	525.00	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:46.98	26368	Not Disc	71.59	70.97	98.69	98.88	95.56	95.62	10528	11448		524.00	525.00	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:47.98	26400	Not Disc	71.59	70.97	98.75	98.88	95.62	95.56	10520	11448		524.00	524.50	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:38:48.98	26400	Not Disc	71.59	70.97	98.75	98.94	95.62	95.56	10544	11440		524.00	525.00	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:49.98	26432	Not Disc	71.59	71.02	98.88	98.94	95.62	95.62	10544	11424		524.00	524.50	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:38:50.98	26432	Not Disc	71.63	71.02	98.75	98.94	95.62	95.56	10552	11424		524.00	524.50	1.55	1.55	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:38:51.98	26464	Not Disc	71.63	71.02	98.81	99.00	95.56	95.62	10568	11416		523.50	524.50	1.55	1.55										

EgyptAir Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Engine Tabular Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: April 25, 2000

Radar Local Time (EST)	Pressure Altitude (ft)	TMC A/T Disconnect	Throttle Resolver Angle 1 (deg)	Throttle Resolver Angle 2 (deg)	N1 Eng1 (% RPM)	N1 Eng2 (% RPM)	N2 Eng1 (% RPM)	N2 Eng2 (% RPM)	Fuel Flow Eng1 (lbs/hr)	Fuel Flow Eng2 (lbs/hr)	Total Fuel Quantity (lbs)	EGT Eng1 (degC)	EGT Eng2 (degC)	EPR Eng1 (ratio)	EPR Eng2 (ratio)	Thrust Reverser Left	Thrust Reverser Right	T/R Right Trans	T/R Left Trans	Eng Fire Left	Eng Fire Right	Engine Start L	Engine Start R	Eng Lo Oil Pres L	Eng Lo Oil Pres R
01:39:20.98	27008	Not Disc	71.72	71.10	98.75	99.00	95.62	95.62	10408	11264		521.00	521.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:39:21.98	27040	Not Disc	71.67	71.10	98.75	98.94	95.62	95.62	10480	11256		520.50	521.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:39:22.98	27040	Not Disc	71.72	71.10	98.75	99.00	95.62	95.62	10504	11256		520.50	521.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:39:23.98	27072	Not Disc	71.72	71.10	98.75	98.94	95.62	95.62	10520	11248		520.50	521.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		norm
01:39:24.98	27072	Not Disc	71.67	71.10	98.75	98.94	95.62	95.62	10472	11224		520.00	521.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:39:25.98	27104	Not Disc	71.72	71.10	98.69	98.88	95.62	95.62	10456	11232		520.00	521.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:39:26.98	27136	Not Disc	71.67	71.10	98.69	98.94	95.56	95.62	10504	11224		520.00	520.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:39:27.98	27136	Not Disc	71.72	71.10	98.75	98.94	95.69	95.69	10472	11216		520.00	520.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:39:28.98	27168	Not Disc	71.72	71.10	98.81	98.94	95.69	95.62	10408	11216		520.00	520.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:39:29.98	27168	Not Disc	71.72	71.10	98.81	98.94	95.69	95.62	10392	11208		520.00	520.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:39:30.98	27200	Not Disc	71.72	71.10	98.81	99.00	95.62	95.62	10320	11208		520.00	520.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:39:31.98	27232	Not Disc	71.72	71.10	98.81	99.00	95.62	95.56	10368	11200	130080	520.00	520.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:39:32.98	27232	Not Disc	71.72	71.10	98.81	99.00	95.62	95.56	10360	11192		519.50	520.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:39:33.98	27264	Not Disc	71.67	71.10	98.75	99.00	95.62	95.56	10360	11192		519.50	520.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:39:34.98	27264	Not Disc	71.72	71.10	98.81	99.00	95.69	95.62	10320	11192		519.50	520.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:39:35.98	27296	Not Disc	71.67	71.10	98.88	99.06	95.69	95.62	10352	11192		519.50	520.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:39:36.98	27296	Not Disc	71.72	71.10	98.88	98.94	95.69	95.62	10368	11176		519.50	520.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:39:37.98	27328	Not Disc	71.67	71.10	98.81	99.00	95.62	95.62	10384	11176		519.50	520.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:39:38.98	27328	Not Disc	71.72	71.10	98.75	99.00	95.62	95.62	10400	11168		519.00	520.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:39:39.98	27360	Not Disc	71.67	71.10	98.75	99.00	95.62	95.62	10384	11160		519.00	519.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:39:40.98	27360	Not Disc	71.72	71.10	98.75	98.88	95.62	95.62	10384	11152		519.00	519.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:39:41.98	27392	Not Disc	71.72	71.10	98.81	98.94	95.62	95.62	10376	11144		519.00	519.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:39:42.98	27392	Not Disc	71.67	71.10	98.75	98.94	95.56	95.69	10360	11144		518.50	519.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:39:43.98	27424	Not Disc	71.72	71.10	98.69	98.94	95.56	95.69	10328	11144		518.50	519.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:39:44.98	27424	Not Disc	71.67	71.10	98.69	98.94	95.62	95.62	10328	11152		518.00	519.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:39:45.98	27456	Not Disc	71.72	71.10	98.75	99.00	95.62	95.62	10288	11144		518.00	519.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:39:46.98	27456	Not Disc	71.72	71.10	98.75	98.88	95.62	95.62	10224	11136		518.00	519.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:39:47.98	27488	Not Disc	71.72	71.10	98.75	98.94	95.62	95.62	10232	11128		518.00	518.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:39:48.98	27488	Not Disc	71.72	71.10	98.75	98.94	95.62	95.62	10248	11128		518.00	518.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:39:49.98	27520	Not Disc	71.72	71.10	98.75	98.94	95.62	95.62	10304	11128		518.00	518.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:39:50.98	27552	Not Disc	71.72	71.15	98.75	99.00	95.69	95.56	10296	11120		518.00	518.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:39:51.98	27552	Not Disc	71.72	71.15	98.81	99.00	95.69	95.62	10224	11112		518.00	518.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:39:52.98	27584	Not Disc	71.76	71.15	98.81	99.00	95.62	95.56	10232	11104		518.00	518.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run	norm	
01:39:53.98	27584	Not Disc	71.76	71.15	98.75	99.00	95.62	95.62	10296	11096		518.00	518.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:39:54.98	27616	Not Disc	71.76	71.15	98.69	99.00	95.62	95.56	10320	11096		518.00	518.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:39:55.98	27616	Not Disc	71.76	71.15	98.75	99.00	95.62	95.62	10280	11096		518.00	518.50	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:39:56.98	27648	Not Disc	71.76	71.15	98.75	98.94	95.62	95.56	10272	11088		517.50	518.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:39:57.98	27680	Not Disc	71.76	71.15	98.81	99.00	95.69	95.62	10248	11080		517.50	518.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:39:58.98	27680	Not Disc	71.76	71.15	98.75	98.94	95.69	95.62	10272	11072		517.50	518.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:39:59.98	27712	Not Disc	71.76	71.15	98.75	98.94	95.62	95.62	10256	11064		517.50	518.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:40:00.98	27712	Not Disc	71.76	71.15	98.69	99.00	95.56	95.69	10288	11064		517.00	518.00	1.56	1.56	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:40:01.98	27744	Not Disc	71.76	71.15	98.75	99.00	95.62	95.75	10288	11056		517.00	518.00	1.56	1.57	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:40:02.98	27776	Not Disc	71.76	71.15	98.81	99.06	95.69	95.75	10272	11056		517.00	518.00	1.56	1.57	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:40:03.98	27776	Not Disc	71.76	71.15	98.88	99.12	95.75	95.75	10328	11048		517.50	518.00	1.57	1.57	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:40:04.98	27808	Not Disc	71.76	71.15	98.88	99.12	95.75	95.75	10264	11048		517.50	518.00	1.57	1.57	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:40:05.98	27808	Not Disc	71.76	71.15	98.94	99.12	95.75	95.75	10264	11040		517.50	518.00	1.57	1.57	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:40:06.98	27840	Not Disc	71.76	71.15	98.88	99.06	95.69	95.69	10232	11032		517.50	518.00	1.57	1.57	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:40:07.98	27872	Not Disc	71.76	71.15	98.88	99.12	95.62	95.69	10176	11024		517.50	517.50	1.57	1.57	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:40:08.98	27872	Not Disc	71.76	71.15	98.81	99.12	95.62	95.69	10112	11016		517.50	517.50	1.57	1.57	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:40:09.98	27904	Not Disc	71.76	71.15	98.81	99.06	95.69	95.62	10096	11016		517.00	517.50	1.57	1.57	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:40:10.98	27904	Not Disc	71.76	71.15	98.88	99.12	95.69	95.62	10112	11016		517.00	517.50	1.57	1.57	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:40:11.98	27936	Not Disc	71.76	71.15	98.88	99.12	95.69	95.69	10168	11016		517.00	517.50	1.57</											

EgyptAir Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Engine Tabular Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: April 25, 2000

Radarc Local Time (EST)	Pressure Altitude (ft)	TMC A/T Disconnect	Throttle Resolver Angle 1 (deg)	Throttle Resolver Angle 2 (deg)	N1 Eng1 (% RPM)	N1 Eng2 (% RPM)	N2 Eng1 (% RPM)	N2 Eng2 (% RPM)	Fuel Flow Eng1 (lbs/hr)	Fuel Flow Eng2 (lbs/hr)	Total Fuel Quantity (lbs)	EGT Eng1 (degC)	EGT Eng2 (degC)	EPR Eng1 (ratio)	EPR Eng2 (ratio)	Thrust Reverser Left	Thrust Reverser Right	T/R Right Trans	T/R Left Trans	Eng Fire Left	Eng Fire Right	Engine Start L	Engine Start R	Eng Lo O11 Pres L	Eng Lo O11 Pres R
01:40:40.98	28640	Not Disc	71.67	71.10	99.06	99.31	95.62	95.69	10072	10792		516.00	516.00	1.58	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:40:41.98	28640	Not Disc	71.67	71.10	99.06	99.38	95.62	95.69	10112	10784		515.50	516.00	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:40:42.98	28672	Not Disc	71.67	71.10	99.06	99.31	95.62	95.62	10176	10776		516.00	516.00	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:40:43.98	28704	Not Disc	71.67	71.10	99.06	99.38	95.69	95.62	10144	10768		515.50	516.00	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:40:44.98	28704	Not Disc	71.67	71.10	99.06	99.31	95.62	95.69	10088	10760		515.50	516.00	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:40:45.98	28736	Not Disc	71.67	71.10	99.12	99.44	95.69	95.75	10080	10760		516.00	516.00	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:40:46.98	28768	Not Disc	71.67	71.10	99.12	99.38	95.75	95.75	10056	10752		516.00	516.00	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:40:47.98	28800	Not Disc	71.67	71.10	99.19	99.50	95.75	95.69	10080	10744		516.00	516.00	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:40:48.98	28800	Not Disc	71.67	71.10	99.19	99.44	95.75	95.62	10008	10736		516.00	515.50	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:40:49.98	28832	Not Disc	71.67	71.10	99.19	99.38	95.75	95.69	9960	10720		515.50	515.50	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:40:50.98	28864	Not Disc	71.67	71.10	99.19	99.38	95.75	95.75	10000	10712		515.50	516.00	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:40:51.98	28864	Not Disc	71.67	71.10	99.25	99.50	95.75	95.69	10048	10704		515.50	516.00	1.59	1.59	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:40:52.98	28896	Not Disc	71.67	71.06	99.25	99.50	95.75	95.69	10080	10688		516.00	516.00	1.59	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:40:53.98	28928	Not Disc	71.67	71.10	99.25	99.50	95.69	95.69	10040	10680		516.00	516.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:40:54.98	28928	Not Disc	71.67	71.06	99.25	99.56	95.69	95.75	10072	10664		516.00	515.50	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:40:55.98	28960	Not Disc	71.67	71.10	99.19	99.50	95.69	95.69	10064	10656		515.50	515.50	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:40:56.98	28992	Not Disc	71.67	71.10	99.25	99.50	95.62	95.69	10048	10656		515.50	515.50	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:40:57.98	28992	Not Disc	71.67	71.06	99.19	99.50	95.69	95.69	10048	10648		515.50	515.50	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:40:58.98	29024	Not Disc	71.67	71.06	99.19	99.50	95.69	95.69	10016	10640		515.00	515.50	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:40:59.98	29056	Not Disc	71.67	71.06	99.25	99.44	95.69	95.69	9960	10632		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:41:00.98	29056	Not Disc	71.67	71.10	99.25	99.44	95.69	95.62	9960	10632		515.50	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:41:01.98	29088	Not Disc	71.72	71.10	99.25	99.50	95.69	95.69	10032	10632		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:41:02.98	29088	Not Disc	71.76	71.15	99.25	99.50	95.62	95.75	9960	10624		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:41:03.98	29120	Not Disc	71.81	71.19	99.25	99.50	95.69	95.69	9976	10616		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:41:04.98	29152	Not Disc	71.81	71.19	99.31	99.56	95.69	95.62	9968	10608		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:41:05.98	29152	Not Disc	71.81	71.19	99.31	99.56	95.69	95.69	9992	10608		515.50	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:41:06.98	29184	Not Disc	71.81	71.19	99.31	99.50	95.69	95.69	9968	10600		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:41:07.98	29216	Not Disc	71.76	71.19	99.31	99.50	95.69	95.62	9944	10600		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:41:08.98	29216	Not Disc	71.81	71.19	99.31	99.56	95.69	95.69	9968	10600		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:41:09.98	29248	Not Disc	71.81	71.19	99.31	99.62	95.69	95.75	10008	10592		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:41:10.98	29248	Not Disc	71.81	71.19	99.38	99.62	95.69	95.69	10016	10584		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:41:11.98	29280	Not Disc	71.81	71.19	99.31	99.62	95.69	95.69	9960	10584		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:41:12.98	29312	Not Disc	71.81	71.19	99.31	99.62	95.75	95.69	9984	10568		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:41:13.98	29312	Not Disc	71.81	71.19	99.38	99.62	95.75	95.69	9992	10568		515.00	515.00	1.60	1.60	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:41:14.98	29344	Not Disc	71.81	71.19	99.38	99.62	95.69	95.69	10008	10568		515.00	514.50	1.60	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:41:15.98	29376	Not Disc	71.81	71.19	99.31	99.50	95.69	95.69	10040	10560		514.50	514.50	1.60	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:41:16.98	29376	Not Disc	71.81	71.19	99.31	99.62	95.69	95.69	10032	10552		514.50	514.50	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:41:17.98	29408	Not Disc	71.81	71.24	99.31	99.62	95.62	95.62	10000	10536		514.50	514.50	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:41:18.98	29408	Not Disc	71.85	71.28	99.31	99.50	95.62	95.69	10024	10528		514.50	514.50	1.60	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:41:19.98	29440	Not Disc	71.89	71.28	99.31	99.56	95.69	95.69	10008	10528		514.50	514.50	1.60	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:41:20.98	29472	Not Disc	71.89	71.28	99.38	99.62	95.69	95.62	10056	10520		514.50	514.00	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:41:21.98	29472	Not Disc	71.89	71.28	99.38	99.56	95.69	95.69	10048	10512		514.50	514.00	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:41:22.98	29504	Not Disc	71.89	71.28	99.38	99.56	95.69	95.69	10080	10496		514.50	514.00	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:41:23.98	29536	Not Disc	71.89	71.28	99.31	99.62	95.62	95.62	10032	10488		514.50	514.00	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:41:24.98	29536	Not Disc	71.89	71.28	99.31	99.62	95.62	95.69	9984	10488		514.00	514.00	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:41:25.98	29568	Not Disc	71.89	71.28	99.38	99.56	95.69	95.69	9992	10480		514.00	514.00	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:41:26.98	29568	Not Disc	71.89	71.28	99.31	99.62	95.69	95.56	9976	10480		514.00	513.50	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:41:27.98	29600	Not Disc	71.89	71.28	99.38	99.56	95.62	95.62	9976	10464		514.00	513.50	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:41:28.98	29632	Not Disc	71.89	71.28	99.38	99.56	95.62	95.69	10024	10464		514.00	513.50	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:41:29.98	29632	Not Disc	71.89	71.28	99.31	99.62	95.62	95.56	10032	10464		514.00	513.00	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:41:30.98	29664	Not Disc	71.89	71.28	99.38	99.56	95.62	95.62	10000	10456		514.00	513.00	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:41:31.98	29696	Not Disc	71.89	71.28	99.38	99.56	95.69	95.69	10048	10456		513.50	513.50	1.61	1.61	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:41:32.98	29696	Not Disc	71.89	71.28</																					

EgyptAir Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Engine Tabular Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: April 25, 2000

Radarc Local Time (EST)	Pressure Altitude (ft)	TMC A/T Disconnect	Throttle Resolver Angle 1 (deg)	Throttle Resolver Angle 2 (deg)	N1 Eng1 (% RPM)	N1 Eng2 (% RPM)	N2 Eng1 (% RPM)	N2 Eng2 (% RPM)	Fuel Flow Eng1 (lbs/hr)	Fuel Flow Eng2 (lbs/hr)	Total Fuel Quantity (lbs)	EGT Eng1 (degC)	EGT Eng2 (degC)	EPR Eng1 (ratio)	EPR Eng2 (ratio)	Thrust Reverser Left	Thrust Reverser Right	T/R Right Trans	T/R Left Trans	Eng Fire Left	Eng Fire Right	Engine Start L	Engine Start R	Eng Lo Oil Pres L	Eng Lo Oil Pres R
01:42:00.98	30304	Not Disc	71.89	71.32	99.50	99.75	95.62	95.62	9968	10272		512.50	512.00	1.62	1.62	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:42:01.98	30336	Not Disc	71.89	71.32	99.56	99.81	95.69	95.62	9960	10272		512.50	512.00	1.62	1.62	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:42:02.98	30336	Not Disc	71.89	71.28	99.56	99.75	95.69	95.69	10008	10264		512.50	512.00	1.62	1.62	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:42:03.98	30368	Not Disc	71.89	71.32	99.56	99.81	95.62	95.62	9944	10256		512.50	512.00	1.62	1.62	stdw/tr	stdw/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:42:04.98	30400	Not Disc	71.89	71.32	99.56	99.81	95.69	95.69	9968	10240		512.50	512.00	1.63	1.62	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:42:05.98	30400	Not Disc	71.89	71.32	99.56	99.88	95.69	95.62	9976	10240		512.50	512.00	1.62	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:06.98	30432	Not Disc	71.89	71.32	99.56	99.81	95.62	95.69	9960	10232		512.50	512.00	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:07.98	30464	Not Disc	71.89	71.32	99.56	99.88	95.62	95.62	9976	10232		512.50	512.00	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:42:08.98	30464	Not Disc	71.89	71.32	99.69	99.88	95.69	95.69	9904	10224		512.50	512.00	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:42:09.98	30496	Not Disc	71.89	71.32	99.56	99.88	95.62	95.62	9872	10208		512.50	512.00	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:10.98	30528	Not Disc	71.89	71.32	99.56	99.88	95.62	95.62	9864	10200		512.50	511.50	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:11.98	30528	Not Disc	71.94	71.32	99.69	99.88	95.69	95.69	9832	10192		512.50	511.50	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:42:12.98	30560	Not Disc	71.94	71.32	99.62	99.88	95.62	95.69	9848	10192		512.00	511.50	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:42:13.98	30560	Not Disc	71.94	71.37	99.56	99.88	95.62	95.69	9848	10184		512.00	511.50	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:14.98	30592	Not Disc	72.03	71.41	99.62	99.88	95.69	95.62	9832	10168		512.00	511.50	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:15.98	30592	Not Disc	72.07	71.46	99.69	99.88	95.62	95.69	9848	10168		512.50	511.50	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:42:16.98	30624	Not Disc	72.07	71.46	99.62	99.88	95.69	95.62	9816	10160		512.50	511.50	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:17.98	30656	Not Disc	72.07	71.46	99.62	99.88	95.69	95.69	9808	10152		512.00	511.50	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:18.98	30656	Not Disc	72.07	71.46	99.62	99.94	95.62	95.62	9816	10144		512.00	511.50	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:19.98	30688	Not Disc	72.11	71.50	99.62	99.88	95.62	95.69	9800	10128		512.00	511.00	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:42:20.98	30720	Not Disc	72.16	71.59	99.69	99.88	95.62	95.56	9792	10128		512.00	511.00	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:42:21.98	30720	Not Disc	72.20	71.59	99.56	99.88	95.62	95.62	9752	10136		512.00	511.00	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:22.98	30752	Not Disc	72.20	71.59	99.62	99.94	95.62	95.62	9712	10128		512.00	511.00	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:23.98	30784	Not Disc	72.25	71.63	99.69	99.94	95.69	95.62	9632	10120		511.50	511.00	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:42:24.98	30784	Not Disc	72.25	71.63	99.62	99.94	95.62	95.62	9576	10120		512.00	511.50	1.63	1.63	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:25.98	30816	Not Disc	72.25	71.63	99.69	99.94	95.69	95.62	9608	10120		512.00	511.50	1.63	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:26.98	30816	Not Disc	72.25	71.63	99.75	99.94	95.69	95.62	9624	10112		512.00	511.00	1.63	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:27.98	30848	Not Disc	72.25	71.63	99.69	99.94	95.62	95.62	9584	10096		512.00	511.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:42:28.98	30880	Not Disc	72.25	71.63	99.75	99.88	95.69	95.62	9560	10096		512.00	511.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:42:29.98	30880	Not Disc	72.25	71.63	99.69	100.00	95.62	95.62	9560	10088		511.50	511.00	1.63	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:30.98	30912	Not Disc	72.25	71.63	99.69	99.94	95.62	95.62	9496	10088		511.50	511.00	1.63	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:31.98	30944	Not Disc	72.25	71.63	99.75	100.00	95.69	95.62	9456	10080		511.50	511.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:42:32.98	30944	Not Disc	72.25	71.63	99.69	99.94	95.62	95.69	9504	10072		511.50	511.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:33.98	30976	Not Disc	72.25	71.63	99.75	100.00	95.69	95.56	9520	10056		511.50	511.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:34.98	31008	Not Disc	72.25	71.63	99.75	99.94	95.62	95.69	9520	10056		511.50	510.50	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:35.98	31008	Not Disc	72.25	71.63	99.69	100.00	95.62	95.56	9536	10048		511.50	510.50	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:42:36.98	31040	Not Disc	72.20	71.63	99.81	99.94	95.62	95.62	9536	10032		511.50	510.50	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:42:37.98	31040	Not Disc	72.25	71.63	99.69	100.00	95.62	95.62	9592	10024		511.50	510.50	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:38.98	31072	Not Disc	72.25	71.63	99.75	100.06	95.62	95.62	9576	10024		511.50	510.50	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:39.98	31104	Not Disc	72.25	71.63	99.81	100.00	95.62	95.69	9600	10016		511.00	510.50	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:42:40.98	31104	Not Disc	72.25	71.63	99.75	100.06	95.62	95.56	9608	10016		511.50	510.50	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:41.98	31136	Not Disc	72.25	71.63	99.81	100.06	95.69	95.62	9592	10008		511.00	510.50	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:42.98	31168	Not Disc	72.25	71.63	99.75	100.00	95.62	95.56	9528	9992		511.00	510.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:43.98	31168	Not Disc	72.25	71.63	99.75	99.94	95.62	95.62	9608	9976	129280	511.00	510.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:42:44.98	31200	Not Disc	72.25	71.63	99.75	100.00	95.62	95.56	9672	9984		511.00	510.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:42:45.98	31232	Not Disc	72.20	71.63	99.75	99.94	95.69	95.56	9688	9976		511.00	510.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:46.98	31232	Not Disc	72.25	71.63	99.75	100.00	95.62	95.62	9664	9968		511.00	510.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:47.98	31264	Not Disc	72.25	71.63	99.69	100.00	95.56	95.56	9704	9968		511.00	510.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:42:48.98	31264	Not Disc	72.20	71.63	99.75	99.94	95.62	95.62	9736	9952		511.00	510.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:42:49.98	31296	Not Disc	72.25	71.63	99.75	100.06	95.62	95.50	9760	9960		510.50	510.00	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:42:50.98	31328	Not Disc	72.25	71.63	99.75	99.94	95.62	95.62	9760	9936		510.50	509.50	1.64	1.64	stdw/tr	stdw/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		norm
01:42:51.98	31328	Not Disc	72.29	71.67	99.75	100.00	95.62	95.50	9760	9928		510.50	509.50	1.64	1.65	stdw/tr	stdw/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:42:52.98	31360	Not Disc	72.29	71.67	99.69	100.00	95.62</																		

EgyptAir Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Engine Tabular Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: April 25, 2000

Radarc Local Time (EST)	Pressure Altitude (ft)	TMC A/T Disconnect	Throttle Resolver Angle 1 (deg)	Throttle Resolver Angle 2 (deg)	N1 Eng1 (% RPM)	N1 Eng2 (% RPM)	N2 Eng1 (% RPM)	N2 Eng2 (% RPM)	Fuel Flow Eng1 (lbs/hr)	Fuel Flow Eng2 (lbs/hr)	Total Fuel Quantity (lbs)	EGT Eng1 (degC)	EGT Eng2 (degC)	EPR Eng1 (ratio)	EPR Eng2 (ratio)	Thrust Reverser Left	Thrust Reverser Right	T/R Right Trans	T/R Left Trans	Eng Fire Left	Eng Fire Right	Engine Start L	Engine Start R	Eng Lo Oil Pres L	Eng Lo Oil Pres R
01:43:20.98	31936	Not Disc	72.42	71.81	99.88	100.19	95.56	95.56	9768	9752		509.50	508.00	1.66	1.66	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:43:21.98	31936	Not Disc	72.42	71.81	99.81	100.19	95.56	95.50	9760	9736		509.00	508.00	1.66	1.66	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:43:22.98	31968	Not Disc	72.42	71.81	99.88	100.19	95.56	95.56	9776	9720		509.50	508.00	1.66	1.66	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:43:23.98	32000	Not Disc	72.42	71.81	99.94	100.19	95.62	95.62	9728	9728		509.50	508.00	1.66	1.66	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:43:24.98	32000	Not Disc	72.42	71.81	100.00	100.19	95.62	95.60	9712	9712		509.50	508.50	1.66	1.66	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:43:25.98	32032	Not Disc	72.42	71.81	100.00	100.25	95.62	95.56	9704	9704		509.50	508.00	1.66	1.66	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:43:26.98	32032	Not Disc	72.42	71.81	99.94	100.12	95.62	95.56	9696	9696		509.50	508.00	1.66	1.66	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:27.98	32064	Not Disc	72.42	71.81	99.94	100.19	95.62	95.50	9728	9696		509.00	508.00	1.66	1.66	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:43:28.98	32064	Not Disc	72.42	71.81	100.00	100.25	95.56	95.56	9720	9696		509.00	508.00	1.66	1.66	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:43:29.98	32096	Not Disc	72.42	71.81	100.00	100.25	95.62	95.62	9688	9680		509.00	508.00	1.66	1.66	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:43:30.98	32096	Not Disc	72.33	71.76	100.00	100.25	95.62	95.62	9656	9680		509.50	508.50	1.66	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:31.98	32128	Not Disc	72.33	71.76	100.12	100.31	95.69	95.50	9624	9656		509.50	508.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:43:32.98	32128	Not Disc	72.38	71.76	100.00	100.25	95.62	95.56	9664	9648		509.50	508.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:43:33.98	32160	Not Disc	72.38	71.76	100.06	100.31	95.62	95.62	9616	9648		509.50	508.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:43:34.98	32160	Not Disc	72.33	71.76	99.94	100.31	95.62	95.56	9624	9640		509.50	508.00	1.66	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:35.98	32192	Not Disc	72.33	71.76	100.00	100.25	95.56	95.44	9600	9632		509.50	508.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:43:36.98	32192	Not Disc	72.38	71.76	100.00	100.19	95.62	95.56	9536	9624		509.50	508.00	1.66	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:37.98	32224	Not Disc	72.38	71.76	100.00	100.19	95.62	95.56	9536	9624		509.50	508.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:43:38.98	32224	Not Disc	72.38	71.81	99.94	100.25	95.62	95.44	9560	9624		509.00	508.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:39.98	32256	Not Disc	72.38	71.76	99.94	100.25	95.62	95.44	9632	9608		509.00	508.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:43:40.98	32256	Not Disc	72.38	71.76	100.00	100.25	95.62	95.56	9664	9608		509.00	508.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:43:41.98	32256	Not Disc	72.38	71.76	99.94	100.25	95.56	95.50	9712	9592		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:43:42.98	32288	Not Disc	72.38	71.76	100.00	100.31	95.56	95.50	9776	9592		509.00	508.00	1.66	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:43.98	32288	Not Disc	72.47	71.85	99.94	100.19	95.56	95.50	9840	9592		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:43:44.98	32320	Not Disc	72.51	71.94	99.94	100.19	95.56	95.50	9704	9584		508.50	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:45.98	32320	Not Disc	72.60	72.03	100.00	100.25	95.62	95.44	9640	9592		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:43:46.98	32352	Not Disc	72.69	72.07	100.06	100.25	95.56	95.50	9592	9600		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:47.98	32352	Not Disc	72.73	72.11	100.06	100.12	95.62	95.56	9544	9600	128960	509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:43:48.98	32384	Not Disc	72.73	72.11	100.00	100.25	95.62	95.50	9512	9592		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:43:49.98	32384	Not Disc	72.73	72.11	100.06	100.25	95.62	95.44	9472	9608		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:43:50.98	32416	Not Disc	72.73	72.11	100.06	100.25	95.62	95.56	9432	9576		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:51.98	32416	Not Disc	72.77	72.16	100.06	100.31	95.62	95.50	9440	9576		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:43:52.98	32416	Not Disc	72.82	72.25	100.12	100.31	95.62	95.50	9456	9568		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:53.98	32448	Not Disc	72.86	72.25	100.00	100.31	95.56	95.50	9448	9560		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:43:54.98	32448	Not Disc	72.91	72.29	100.06	100.31	95.56	95.56	9392	9552		509.50	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:55.98	32480	Not Disc	72.91	72.29	100.06	100.31	95.62	95.50	9376	9560		509.50	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:43:56.98	32480	Not Disc	72.91	72.29	100.00	100.31	95.56	95.44	9464	9568		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:43:57.98	32512	Not Disc	72.91	72.29	100.06	100.31	95.62	95.50	9520	9552		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:43:58.98	32512	Not Disc	72.91	72.29	100.00	100.25	95.56	95.56	9568	9552		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:43:59.98	32544	Not Disc	72.91	72.29	100.12	100.31	95.62	95.50	9664	9520		509.00	507.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:44:00.98	32544	Not Disc	72.91	72.29	100.06	100.31	95.62	95.44	9720	9528		509.00	507.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:01.98	32576	Not Disc	72.91	72.29	100.12	100.31	95.56	95.50	9672	9528		509.00	507.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:44:02.98	32576	Not Disc	72.91	72.29	100.12	100.38	95.56	95.56	9568	9520		509.00	507.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:03.98	32608	Not Disc	72.91	72.29	100.06	100.31	95.56	95.50	9504	9512		509.00	507.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:44:04.98	32608	Not Disc	72.91	72.29	100.06	100.38	95.56	95.44	9456	9496		508.50	507.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:05.98	32608	Not Disc	72.91	72.29	100.06	100.25	95.56	95.50	9432	9496		508.50	507.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:44:06.98	32640	Not Disc	72.91	72.29	100.00	100.31	95.56	95.56	9392	9496		508.50	507.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:07.98	32640	Not Disc	72.91	72.29	100.06	100.31	95.62	95.50	9360	9488		508.50	507.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:44:08.98	32672	Not Disc	72.91	72.29	100.06	100.38	95.56	95.44	9336	9504		508.50	507.00	1.68	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:09.98	32672	Not Disc	72.95	72.33	100.12	100.31	95.56	95.44	9320	9488		508.50	507.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:44:10.98	32704	Not Disc	72.95	72.33	100.12	100.25	95.56	95.56	9304	9480		508.50	507.00	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:11.98	32736	Not Disc	72.95	72.33	100.00	100.31	95.56	95.44	9264	9480		508.50	506.50	1.67	1.67	stdw/tra	stdw/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:44:12.98	32736	Not Disc	72.99																						

EgyptAir Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Engine Tabular Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: April 25, 2000

Radarc Local Time (EST)	Pressure Altitude (ft)	TMC A/T Disconnect	Throttle Resolver Angle 1 (deg)	Throttle Resolver Angle 2 (deg)	N1 Eng1 (% RPM)	N1 Eng2 (% RPM)	N2 Eng1 (% RPM)	N2 Eng2 (% RPM)	Fuel Flow Eng1 (lbs/hr)	Fuel Flow Eng2 (lbs/hr)	Total Fuel Quantity (lbs)	EGT Eng1 (degC)	EGT Eng2 (degC)	EPR Eng1 (ratio)	EPR Eng2 (ratio)	Thrust Reverser Left	Thrust Reverser Right	T/R Right Trans	T/R Left Trans	Eng Fire Left	Eng Fire Right	Engine Start L	Engine Start R	Eng Lo Oil Pres L	Eng Lo Oil Pres R
01:44:40.98	33024	Not Disc	60.03	59.55	90.69	90.75	90.88	90.69	7192	7248		462.50	461.00	1.37	1.37	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:44:41.98	33024	Not Disc	59.81	59.33	90.25	90.38	90.69	90.50	7056	7120		459.00	457.50	1.37	1.36	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:44:42.98	33024	Not Disc	59.63	59.15	90.00	90.12	90.50	90.31	6920	7016		455.50	454.50	1.36	1.35	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:43.98	33024	Not Disc	59.55	59.06	89.88	89.94	90.31	90.19	6808	6928		452.50	451.50	1.35	1.35	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:44.98	33024	Not Disc	59.46	58.97	89.69	89.75	90.19	90.06	6736	6864		450.00	449.00	1.35	1.35	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:45.98	33024	Not Disc	59.33	58.80	89.50	89.69	90.12	90.00	6672	6816		448.00	446.50	1.34	1.34	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:46.98	33024	Not Disc	59.11	58.62	89.50	89.56	90.06	89.94	6600	6768		446.00	445.00	1.34	1.34	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:47.98	33024	Not Disc	58.93	58.45	89.31	89.50	89.94	89.81	6592	6720		444.00	443.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:48.98	33024	Not Disc	58.80	58.32	89.19	89.25	89.81	89.75	6536	6672		442.00	441.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:49.98	33024	Not Disc	58.71	58.23	89.00	89.19	89.81	89.69	6496	6648		440.00	439.00	1.33	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:50.98	32992	Not Disc	58.58	58.14	88.94	89.06	89.75	89.62	6488	6608		438.50	437.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:51.98	32992	Not Disc	58.49	58.05	88.88	89.00	89.75	89.62	6440	6592	128320	437.00	436.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:52.98	32992	Not Disc	58.40	57.96	88.81	88.88	89.69	89.56	6408	6568		435.50	434.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:53.98	32992	Not Disc	58.32	57.88	88.69	88.88	89.62	89.50	6376	6544		434.50	433.50	1.31	1.31	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:54.98	32992	Not Disc	58.27	57.79	88.56	88.75	89.62	89.50	6384	6520		433.00	432.00	1.31	1.31	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:55.98	32992	Not Disc	58.18	57.70	88.56	88.69	89.56	89.44	6360	6504		432.00	431.00	1.31	1.31	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:56.98	32992	Not Disc	58.10	57.61	88.44	88.62	89.56	89.44	6336	6488		431.00	430.00	1.31	1.31	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:57.98	32992	Not Disc	58.01	57.52	88.38	88.56	89.50	89.44	6360	6480		430.00	429.00	1.30	1.30	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:58.98	32992	Not Disc	57.92	57.48	88.38	88.50	89.50	89.38	6328	6464		429.00	428.00	1.30	1.30	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:44:59.98	32992	Not Disc	57.83	57.39	88.25	88.44	89.44	89.38	6304	6456		428.00	427.50	1.30	1.30	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:00.98	32992	Not Disc	57.74	57.30	88.19	88.44	89.44	89.31	6288	6440		427.00	426.00	1.30	1.30	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:01.98	32992	Not Disc	57.70	57.26	88.19	88.31	89.38	89.31	6304	6424		426.00	425.50	1.30	1.30	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:02.98	32992	Not Disc	57.66	57.22	88.12	88.25	89.38	89.25	6280	6408		425.00	424.50	1.29	1.29	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:03.98	32992	Not Disc	57.61	57.17	88.06	88.19	89.31	89.25	6264	6400		424.50	423.50	1.29	1.29	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:04.98	32992	Not Disc	57.52	57.08	88.00	88.25	89.31	89.25	6288	6400		423.50	423.00	1.29	1.29	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:05.98	32992	Not Disc	57.48	57.04	88.00	88.12	89.25	89.25	6248	6384		423.00	422.50	1.29	1.29	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:06.98	32992	Not Disc	57.44	57.00	88.00	88.06	89.25	89.19	6224	6368		422.00	421.50	1.29	1.29	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:07.98	32992	Not Disc	57.39	56.95	87.88	88.00	89.25	89.19	6256	6360		421.00	421.00	1.29	1.29	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:08.98	32992	Not Disc	57.39	56.95	87.88	88.00	89.19	89.12	6248	6360		420.50	420.00	1.29	1.29	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:09.98	32992	Not Disc	57.30	56.87	87.88	88.00	89.19	89.12	6224	6352		420.00	419.50	1.29	1.29	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:10.98	32992	Not Disc	57.26	56.78	87.81	88.00	89.12	89.12	6224	6344		419.50	419.00	1.29	1.29	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:11.98	32992	Not Disc	57.17	56.73	87.88	87.94	89.12	89.12	6264	6328		419.00	418.50	1.28	1.28	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:12.98	32992	Not Disc	57.13	56.65	87.69	87.81	89.12	89.06	6216	6312		418.00	417.50	1.28	1.28	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:13.98	32992	Not Disc	57.04	56.60	87.69	87.81	89.06	89.00	6184	6304		417.50	417.00	1.28	1.28	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:14.98	32992	Not Disc	57.00	56.51	87.62	87.75	89.06	89.00	6208	6288		417.00	416.50	1.28	1.28	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:15.98	32992	Not Disc	56.87	56.43	87.56	87.69	89.00	88.94	6176	6272		416.50	416.00	1.28	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:16.98	32992	Not Disc	56.82	56.38	87.50	87.62	89.00	88.88	6144	6256		415.50	415.50	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:17.98	32992	Not Disc	56.78	56.29	87.44	87.44	88.94	88.88	6168	6248		415.00	414.50	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:18.98	32992	Not Disc	56.73	56.29	87.44	87.50	88.94	88.88	6136	6232		414.00	414.00	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:19.98	32992	Not Disc	56.69	56.25	87.31	87.44	88.88	88.88	6104	6216		414.00	413.50	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:20.98	32992	Not Disc	56.65	56.25	87.31	87.44	88.88	88.81	6096	6208		413.50	413.00	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:21.98	32992	Not Disc	56.65	56.25	87.31	87.38	88.88	88.81	6096	6208		413.00	412.50	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:22.98	32992	Not Disc	56.65	56.25	87.25	87.44	88.88	88.81	6072	6200		412.50	412.50	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:23.98	32992	Not Disc	56.65	56.25	87.25	87.38	88.88	88.81	6064	6200		412.00	412.00	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:24.98	32992	Not Disc	56.65	56.25	87.25	87.38	88.88	88.81	6056	6200		411.50	411.50	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:25.98	32992	Not Disc	56.65	56.25	87.25	87.38	88.81	88.81	6048	6200		411.50	411.00	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:26.98	32992	Not Disc	56.65	56.25	87.19	87.38	88.88	88.81	6040	6200		411.00	411.00	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:27.98	32992	Not Disc	56.65	56.25	87.25	87.38	88.88	88.81	6024	6200		411.00	410.50	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:28.98	32992	Not Disc	56.65	56.25	87.25	87.44	88.88	88.81	6048	6200		410.50	410.50	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:29.98	32992	Not Disc	56.65	56.25	87.19	87.38	88.81	88.81	6040	6208		410.00	408.00	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:30.98	32992	Not Disc	56.65	56.25	87.25	87.44	88.88	88.81	6032	6208		410.00	410.00	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:31.98	32992	Not Disc	56.69	56.25	87.25	87.44	88.88	88.81	6072	6216		410.00	410.00	1.27	1.27	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:45:32.98	32992	Not Disc	56.69	56.25	87.25	87.44	88.88	88.81	6056	6208		410.00													

EgyptAir Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Engine Tabular Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: April 25, 2000

Radar Local Time (EST)	Pressure Altitude (ft)	TMC A/T Disconnect	Throttle Resolver Angle 1 (deg)	Throttle Resolver Angle 2 (deg)	N1 Eng1 (% RPM)	N1 Eng2 (% RPM)	N2 Eng1 (% RPM)	N2 Eng2 (% RPM)	Fuel Flow Eng1 (lbs/hr)	Fuel Flow Eng2 (lbs/hr)	Total Fuel Quantity (lbs)	EGT Eng1 (degC)	EGT Eng2 (degC)	EPR Eng1 (ratio)	EPR Eng2 (ratio)	Thrust Reverser Left	Thrust Reverser Right	T/R Right Trans	T/R Left Trans	Eng Fire Left	Eng Fire Right	Engine Start L	Engine Start R	Eng Lo Oil Pres L	Eng Lo Oil Pres R
01:46:00.98	32992	Not Disc	57.66	57.22	88.06	88.25	89.31	89.25	6288	6424		412.00	412.50	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:46:01.98	32992	Not Disc	57.66	57.22	88.06	88.25	89.31	89.25	6320	6424		412.00	412.50	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run	norm	norm
01:46:02.98	32992	Not Disc	57.74	57.30	88.06	88.25	89.31	89.25	6304	6424		412.00	412.50	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:46:03.98	32992	Not Disc	57.79	57.35	88.06	88.25	89.31	89.31	6298	6432		412.00	412.50	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:46:04.98	32992	Not Disc	57.79	57.35	88.12	88.31	89.31	89.31	6336	6440		412.00	413.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:46:05.98	32992	Not Disc	57.83	57.39	88.12	88.31	89.31	89.31	6312	6448		412.00	413.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:06.98	32992	Not Disc	57.88	57.44	88.12	88.38	89.38	89.31	6296	6456		412.50	413.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:07.98	32992	Not Disc	57.92	57.48	88.19	88.31	89.38	89.31	6344	6456		412.50	413.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:46:08.98	32992	Not Disc	58.01	57.52	88.25	88.38	89.38	89.38	6352	6472		412.50	413.50	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:09.98	32992	Not Disc	58.01	57.57	88.31	88.50	89.44	89.44	6336	6488		413.00	413.50	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:10.98	32992	Not Disc	58.10	57.66	88.38	88.50	89.44	89.44	6328	6488		413.00	414.00	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:11.98	32992	Not Disc	58.14	57.70	88.31	88.62	89.50	89.44	6368	6504		413.00	414.00	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:46:12.98	32992	Not Disc	58.23	57.79	88.44	88.56	89.50	89.44	6360	6512		413.50	414.00	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:13.98	32992	Not Disc	58.27	57.83	88.50	88.69	89.50	89.50	6360	6520		414.00	414.50	1.32	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:14.98	32992	Not Disc	58.32	57.83	88.56	88.69	89.56	89.50	6384	6536		414.00	414.50	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:15.98	32992	Not Disc	58.32	57.83	88.50	88.75	89.56	89.50	6424	6544		414.00	415.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:46:16.98	32992	Not Disc	58.32	57.83	88.56	88.69	89.56	89.50	6408	6552		414.50	415.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:17.98	32992	Not Disc	58.32	57.83	88.50	88.75	89.50	89.50	6400	6552		414.50	415.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:18.98	32992	Not Disc	58.32	57.83	88.56	88.75	89.56	89.50	6440	6552		414.50	415.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:19.98	32992	Not Disc	58.27	57.70	88.56	88.69	89.50	89.50	6456	6560		415.00	415.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:46:20.98	32992	Not Disc	57.96	57.48	88.56	88.69	89.56	89.44	6432	6544		414.50	415.00	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:46:21.98	32992	Not Disc	57.88	57.39	88.44	88.44	89.44	89.31	6400	6528		414.50	415.00	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:22.98	32992	Not Disc	57.79	57.30	88.31	88.44	89.31	89.25	6368	6512		414.00	414.50	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:23.98	32992	Not Disc	57.74	57.30	88.25	88.38	89.25	89.25	6336	6496		413.50	414.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:46:24.98	32992	Not Disc	57.70	57.30	88.19	88.25	89.25	89.19	6320	6480		413.50	414.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:25.98	32992	Not Disc	57.70	57.30	88.12	88.25	89.19	89.19	6360	6464		413.00	413.50	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:26.98	32992	Not Disc	57.70	57.26	88.06	88.25	89.19	89.19	6336	6456		413.00	413.50	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:27.98	32992	Not Disc	57.70	57.30	88.06	88.25	89.19	89.19	6320	6456		413.00	413.50	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:46:28.98	32992	Not Disc	57.70	57.30	88.12	88.25	89.19	89.12	6312	6448		412.50	413.50	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:29.98	32992	Not Disc	57.74	57.30	88.06	88.25	89.19	89.12	6304	6448		412.50	413.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:30.98	32992	Not Disc	57.70	57.30	88.12	88.25	89.19	89.12	6296	6448		412.50	413.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:31.98	32992	Not Disc	57.70	57.30	88.06	88.31	89.25	89.12	6288	6448		412.50	413.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:46:32.98	32992	Not Disc	57.70	57.30	88.12	88.25	89.19	89.12	6320	6440		412.50	413.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:33.98	32992	Not Disc	57.74	57.30	88.12	88.25	89.19	89.12	6304	6440		412.50	413.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:34.98	32992	Not Disc	57.88	57.44	88.12	88.25	89.19	89.12	6288	6432		412.50	413.00	1.30	1.30	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:35.98	32992	Not Disc	58.05	57.61	88.12	88.31	89.25	89.19	6320	6456		412.50	413.00	1.30	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:46:36.98	32992	Not Disc	58.14	57.70	88.31	88.44	89.31	89.31	6328	6480		413.00	413.50	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:37.98	32992	Not Disc	58.23	57.79	88.31	88.44	89.38	89.38	6344	6496		413.00	414.00	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:38.98	32992	Not Disc	58.36	57.88	88.44	88.62	89.44	89.44	6352	6512		413.50	414.50	1.31	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:39.98	32992	Not Disc	58.40	57.96	88.50	88.69	89.44	89.44	6424	6528		414.00	414.50	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:46:40.98	32992	Not Disc	58.45	57.96	88.56	88.81	89.50	89.50	6416	6552		414.50	415.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:41.98	32992	Not Disc	58.45	58.01	88.62	88.75	89.56	89.50	6416	6568		414.50	415.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:42.98	32992	Not Disc	58.49	58.01	88.62	88.81	89.56	89.50	6424	6576		415.00	415.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:43.98	32992	Not Disc	58.45	58.01	88.69	88.81	89.56	89.50	6448	6584		415.00	416.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:46:44.98	32992	Not Disc	58.49	58.01	88.69	88.81	89.56	89.50	6496	6592		415.00	416.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:45.98	32992	Not Disc	58.23	57.74	88.75	88.88	89.56	89.56	6480	6592		415.00	416.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:46.98	32992	Not Disc	58.18	57.74	88.69	88.81	89.50	89.44	6456	6576		415.00	416.00	1.32	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:47.98	32992	Not Disc	58.18	57.74	88.62	88.75	89.44	89.38	6424	6560		415.00	416.00	1.31	1.32	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:46:48.98	32992	Not Disc	58.14	57.70	88.56	88.69	89.38	89.38	6424	6560		415.00	415.50	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:49.98	32992	Not Disc	58.14	57.70	88.44	88.62	89.38	89.38	6408	6552		415.00	415.50	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:46:50.98	32992	Not Disc	58.14	57.70	88.50	88.69	89.44	89.31	6384	6544		415.00	415.50	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:46:51.98	32992	Not Disc	58.10	57.70	88.50	88.62	89.38	89.31	6376	6544		414.50	415.50	1.31	1.31	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:46:52.98	32992	Not Disc	58.10	57.66	88.50	88.62	89.31	89.31	6424	6536		415.00	415.50	1.31	1										

EgyptAir Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Engine Tabular Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: April 25, 2000

Radars Local Time (EST)	Pressure Altitude (ft)	TMC A/T Disconnect	Throttle Resolver Angle 1 (deg)	Throttle Resolver Angle 2 (deg)	N1 Eng1 (% RPM)	N1 Eng2 (% RPM)	N2 Eng1 (% RPM)	N2 Eng2 (% RPM)	Fuel1 Flow Eng1 (lbs/hr)	Fuel2 Flow Eng2 (lbs/hr)	Total Fuel Quantity (lbs)	EGT Eng1 (degC)	EGT Eng2 (degC)	EPR Eng1 (ratio)	EPR Eng2 (ratio)	Thrust Reverser Left	Thrust Reverser Right	T/R Right Trans	T/R Left Trans	Eng Fire Left	Eng Fire Right	Engine Start L	Engine Start R	Eng Lo O11 Pres L	Eng Lo O11 Pres R
01:47:20.98	32992	Not Disc	58.23	57.83	88.56	88.75	89.38	89.38	6400	6552		415.50	416.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:47:21.98	32992	Not Disc	58.27	57.83	88.62	88.75	89.38	89.38	6448	6552		415.50	416.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run	norm	
01:47:22.98	32992	Not Disc	58.27	57.83	88.56	88.75	89.38	89.31	6464	6552		415.50	416.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:23.98	32992	Not Disc	58.32	57.83	88.62	88.75	89.38	89.31	6440	6560		415.50	416.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:47:24.98	32992	Not Disc	58.32	57.88	88.62	88.75	89.44	89.31	6432	6560		415.50	416.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:47:25.98	32992	Not Disc	58.36	57.88	88.62	88.88	89.38	89.38	6440	6560		415.50	416.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:47:26.98	32992	Not Disc	58.36	57.92	88.62	88.69	89.38	89.38	6440	6568		415.50	416.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:27.98	32992	Not Disc	58.40	57.96	88.62	88.81	89.38	89.38	6424	6568		416.00	416.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:47:28.98	32992	Not Disc	58.40	57.92	88.62	88.81	89.44	89.38	6416	6576		416.00	416.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:29.98	32992	Not Disc	58.40	57.96	88.69	88.88	89.44	89.38	6464	6584		416.00	417.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:47:30.98	32992	Not Disc	58.40	57.96	88.75	88.75	89.44	89.38	6472	6584		416.50	417.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:31.98	32992	Not Disc	58.40	57.96	88.69	88.88	89.44	89.38	6456	6584		416.50	417.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:47:32.98	32992	Not Disc	58.40	57.96	88.69	88.88	89.44	89.38	6448	6584		416.50	417.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:47:33.98	32992	Not Disc	58.45	57.96	88.75	88.88	89.44	89.38	6496	6584		416.50	417.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:47:34.98	32992	Not Disc	58.45	58.01	88.75	88.81	89.44	89.38	6464	6584		416.50	417.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:35.98	32992	Not Disc	58.45	58.01	88.69	88.88	89.44	89.38	6448	6592		416.50	417.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:47:36.98	32992	Not Disc	58.49	58.01	88.75	88.88	89.44	89.38	6488	6592		417.00	417.00	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:37.98	32992	Not Disc	58.49	58.01	88.69	88.88	89.44	89.38	6472	6592		416.50	417.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:47:38.98	32992	Not Disc	58.49	58.01	88.69	88.88	89.44	89.44	6448	6592		416.50	417.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:39.98	32992	Not Disc	58.49	58.01	88.69	88.94	89.44	89.38	6448	6592		416.50	417.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:47:40.98	32992	Not Disc	58.49	58.05	88.69	88.88	89.44	89.38	6480	6600		417.00	417.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:47:41.98	32992	Not Disc	58.49	58.05	88.75	88.94	89.44	89.44	6464	6600		417.00	417.50	1.32	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:47:42.98	32992	Not Disc	58.54	58.05	88.69	88.94	89.44	89.44	6472	6608		417.00	417.50	1.32	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:43.98	32992	Not Disc	58.54	58.05	88.75	88.81	89.44	89.44	6488	6608		417.00	417.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:47:44.98	32992	Not Disc	58.54	58.10	88.81	88.94	89.44	89.44	6480	6608		417.00	418.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:47:45.98	32992	Not Disc	58.54	58.10	88.75	88.94	89.44	89.44	6480	6608		417.00	418.00	1.33	1.32	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:47:46.98	32992	Not Disc	58.54	58.10	88.81	88.94	89.50	89.44	6536	6616		417.00	418.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:47.98	32992	Not Disc	58.58	58.10	88.81	88.94	89.50	89.44	6576	6616		417.50	418.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:47:48.98	32992	Not Disc	58.54	58.10	88.75	88.88	89.50	89.44	6536	6616		417.50	418.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:47:49.98	32992	Not Disc	58.58	58.10	88.75	89.00	89.44	89.44	6512	6616		417.00	418.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:47:50.98	32992	Not Disc	58.58	58.14	88.81	88.94	89.44	89.44	6480	6624		417.50	418.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:51.98	32992	Not Disc	58.62	58.14	88.81	88.88	89.50	89.44	6536	6624		417.50	418.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:47:52.98	32992	Not Disc	58.62	58.14	88.81	88.81	89.00	89.44	6512	6624		417.50	418.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:47:53.98	32992	Not Disc	58.62	58.18	88.81	88.94	89.50	89.38	6488	6624		417.50	418.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:47:54.98	32992	Not Disc	58.62	58.18	88.81	88.88	89.44	89.44	6520	6616		417.50	418.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:55.98	32992	Not Disc	58.62	58.18	88.75	89.00	89.44	89.44	6504	6624		417.50	418.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:47:56.98	32992	Not Disc	58.67	58.18	88.75	89.00	89.50	89.50	6496	6624		417.50	418.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:47:57.98	32992	Not Disc	58.67	58.23	88.81	89.00	89.50	89.50	6496	6632		418.00	418.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:47:58.98	32992	Not Disc	58.67	58.23	88.88	89.06	89.50	89.50	6488	6632		418.00	419.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:47:59.98	32992	Not Disc	58.71	58.23	88.88	89.12	89.50	89.50	6480	6640		418.00	419.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:48:00.98	32992	Not Disc	58.71	58.27	88.88	89.06	89.50	89.50	6464	6640		418.00	419.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:48:01.98	32992	Not Disc	58.71	58.27	88.88	89.06	89.50	89.50	6552	6648		418.00	419.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:48:02.98	32992	Not Disc	58.75	58.27	88.88	89.06	89.50	89.50	6616	6648		418.50	419.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:48:03.98	32992	Not Disc	58.75	58.27	88.88	89.06	89.56	89.50	6600	6656	127360	418.50	419.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:48:04.98	32992	Not Disc	58.71	58.27	88.88	89.06	89.50	89.50	6560	6656		418.50	419.00	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:48:05.98	32992	Not Disc	58.75	58.27	88.94	89.12	89.56	89.50	6520	6664		418.50	419.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:48:06.98	32992	Not Disc	58.75	58.32	88.94	89.12	89.50	89.50	6576	6664		418.50	419.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:48:07.98	32992	Not Disc	58.75	58.32	88.94	89.00	89.50	89.50	6544	6664		418.50	419.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:48:08.98	32992	Not Disc	58.75	58.32	88.94	89.12	89.50	89.50	6528	6664		419.00	419.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:48:09.98	32992	Not Disc	58.75	58.32	88.88	89.12	89.56	89.50	6504	6664		418.50	419.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:48:10.98	32992	Not Disc	58.75	58.32	88.94	89.19	89.56	89.44	6520	6664		419.00	419.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:48:11.98	32992	Not Disc	58.75	58.32	88.81	89.06	89.50	89.50	6624	6664		419.00	419.50	1.33	1.33	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:48:12.98																									

Radial Local Time (EST)	Pressure Altitude (ft)	TMC A/T Disconnect	Throttle Resolver Angle 1 (deg)	Throttle Resolver Angle 2 (deg)	N1 Eng1 (% RPM)	N1 Eng2 (% RPM)	N2 Eng1 (% RPM)	N2 Eng2 (% RPM)	Fuel Flow Eng1 (lbs/hr)	Fuel Flow Eng2 (lbs/hr)	Total Fuel Quantity (lbs)	EGT Eng1 (degC)	EGT Eng2 (degC)	EPR Eng1 (ratio)	EPR Eng2 (ratio)	Thrust Reverser Left	Thrust Reverser Right	T/R Right Trans	T/R Left Trans	Eng Fire Left	Eng Fire Right	Engine Start L	Engine Start R	Eng Lo Oil Pres L	Eng Lo Oil Pres R
01:48:40.98	32992	Not Disc	59.02	58.54	89.12	89.12	89.62	89.50	6616	6704		420.00	421.00	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:48:41.98	32992	Not Disc	59.02	58.54	89.12	89.25	89.56	89.50	6680	6704		420.00	421.00	1.34	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run	norm	norm
01:48:42.98	32992	Not Disc	59.06	58.62	89.06	89.38	89.56	89.31	6744	6688		420.50	420.50	1.34	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		
01:48:43.98	32992	Not Disc	59.15	58.67	89.12	89.12	89.56	89.06	6768	6664		420.50	419.50	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:48:44.98	32992	Not Disc	59.15	58.67	89.19	89.19	89.62	89.06	6752	6656		420.50	419.00	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:48:45.98	32992	Not Disc	59.15	58.67	89.19	89.19	89.69	89.06	6704	6656		421.00	418.50	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:48:46.98	32992	Not Disc	59.15	58.67	89.25	89.25	89.62	89.06	6656	6656		421.00	418.50	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:48:47.98	32992	Not Disc	59.15	58.67	89.25	89.38	89.62	89.06	6608	6656		421.00	418.00	1.34	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:48:48.98	32992	Not Disc	59.15	58.67	89.25	89.31	89.62	89.06	6672	6648		421.00	418.00	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:48:49.98	32992	Not Disc	59.15	58.67	89.19	89.31	89.62	89.06	6680	6648		421.00	418.00	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:48:50.98	32992	Not Disc	59.15	58.67	89.19	89.31	89.62	89.06	6648	6640		421.00	417.50	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:48:51.98	32992	Not Disc	59.15	58.67	89.25	89.25	89.62	89.00	6616	6640		421.00	417.50	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:48:52.98	32992	Not Disc	59.15	58.67	89.25	89.25	89.62	89.00	6584	6640		421.50	417.00	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:48:53.98	32992	Not Disc	59.15	58.67	89.19	89.25	89.50	89.00	6632	6632		421.50	417.00	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:48:54.98	32992	Not Disc	59.15	58.67	89.19	89.25	89.62	89.06	6688	6640		421.50	417.00	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:48:55.98	32992	Not Disc	59.15	58.67	89.19	89.19	89.56	89.06	6720	6640		421.50	417.00	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:48:56.98	32992	Not Disc	59.15	58.67	89.19	89.31	89.56	89.00	6704	6640		421.00	417.00	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:48:57.98	32992	Not Disc	59.15	58.67	89.19	89.31	89.56	89.06	6656	6632		421.00	417.00	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:48:58.98	32992	Not Disc	59.15	58.67	89.12	89.25	89.56	89.00	6624	6632		421.00	416.50	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:48:59.98	32992	Not Disc	59.15	58.67	89.19	89.31	89.56	89.00	6592	6632		421.00	416.50	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:49:00.98	32992	Not Disc	59.19	58.71	89.19	89.25	89.56	89.06	6616	6632		421.00	416.50	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:49:01.98	32992	Not Disc	59.19	58.75	89.19	89.31	89.56	89.06	6600	6632		421.00	416.50	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:49:02.98	32992	Not Disc	59.24	58.75	89.19	89.25	89.56	89.06	6584	6632		421.00	416.50	1.34	1.34	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:49:03.98	32992	Not Disc	59.24	58.75	89.19	89.31	89.56	89.06	6576	6648		421.00	416.50	1.34	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:49:04.98	32992	Not Disc	59.24	58.75	89.19	89.44	89.62	89.12	6624	6648		421.00	417.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:49:05.98	32992	Not Disc	59.24	58.80	89.31	89.38	89.62	89.06	6664	6648		421.50	417.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:49:06.98	32992	Not Disc	59.24	58.80	89.25	89.38	89.62	89.06	6632	6648		421.50	417.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:49:07.98	32992	Not Disc	59.28	58.80	89.19	89.38	89.69	89.06	6616	6656	127200	421.50	417.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:49:08.98	32992	Not Disc	59.28	58.84	89.31	89.38	89.62	89.06	6592	6664		421.50	417.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:49:09.98	32992	Not Disc	59.28	58.84	89.31	89.38	89.62	89.06	6648	6664		421.50	417.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		
01:49:10.98	32992	Not Disc	59.33	58.84	89.31	89.38	89.62	89.06	6640	6664		422.00	417.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:49:11.98	32992	Not Disc	59.33	58.84	89.31	89.44	89.69	89.12	6616	6664		422.00	417.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:49:12.98	32992	Not Disc	59.33	58.84	89.38	89.44	89.69	89.12	6608	6672		422.00	417.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run	norm	
01:49:13.98	32992	Not Disc	59.33	58.84	89.38	89.44	89.69	89.12	6632	6672		422.00	417.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:49:14.98	32992	Not Disc	59.33	58.89	89.38	89.44	89.69	89.12	6664	6680		422.00	417.50	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:49:15.98	32992	Not Disc	59.37	58.89	89.38	89.44	89.69	89.12	6640	6672		422.50	417.50	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:49:16.98	32992	Not Disc	59.41	58.93	89.38	89.44	89.69	89.19	6632	6680		422.50	417.50	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:49:17.98	32992	Not Disc	59.41	58.97	89.38	89.50	89.69	89.12	6608	6688		422.50	417.50	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:49:18.98	32992	Not Disc	59.41	58.97	89.38	89.50	89.69	89.19	6632	6688		422.50	417.50	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:49:19.98	32992	Not Disc	59.46	58.97	89.44	89.50	89.69	89.19	6632	6688		422.50	418.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:49:20.98	32992	Not Disc	59.46	58.97	89.44	89.56	89.69	89.12	6632	6696		422.50	418.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:49:21.98	32992	Not Disc	59.46	59.02	89.38	89.56	89.69	89.19	6600	6688		422.50	418.00	1.32	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:49:22.98	32992	Not Disc	59.50	59.02	89.44	89.00	89.75	89.19	6600	6696		423.00	418.00	1.36	1.36	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:49:23.98	32992	Not Disc	59.50	59.02	89.44	89.56	89.69	89.19	6648	6696		423.00	418.00	1.35	1.35	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:49:24.98	32992	Not Disc	59.55	59.06	89.50	89.56	89.69	89.19	6640	6704		423.00	418.00	1.36	1.36	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		norm
01:49:25.98	32992	Not Disc	59.55	59.11	89.50	89.62	89.69	89.12	6624	6704		423.00	418.00	1.36	1.36	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:49:26.98	32992	Not Disc	59.59	59.11	89.50	89.56	89.69	89.19	6664	6704		423.00	418.00	1.35	1.36	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:49:27.98	32992	Not Disc	59.59	59.11	89.44	89.62	89.75	89.19	6636	6712		423.00	418.00	1.36	1.36	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run		norm
01:49:28.98	32992	Not Disc	59.59	59.15	89.56	89.69	89.75	89.19	6656	6720		423.00	418.50	1.36	1.36	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:49:29.98	32992	Not Disc	59.63	59.15	89.56	89.69	89.75	89.19	6656	6720		423.50	418.50	1.36	1.36	stwd/tr	stwd/tr	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:49:30.98	32992	Not Disc	59.63	59.15	89.56	89.69	89.75	89.19	6712	6728		423.50	418.50	1.36	1.36	stwd/tr	stwd/tr	lock/dep	lock/dep		norm	Eng Run	Eng Run		norm
01:49:31.98	32992	Not Disc	59.68	59.15	89.56	89.69	89.75	89.19	6696	6728		423.50	418.50	1.36	1.36	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:49:32.98	32992	Not Disc	59.68	59.19	89.56	89.69	89.75	89.19	6680	6728		423.50	418.50	1.36	1.36	stwd/tr	stwd/tr	lock/dep	lock/dep			Eng Run			

EgyptAir Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Engine Tabular Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: April 25, 2000

Radar Local Time (EST)	Pressure Altitude (ft)	TMC A/T Disconnect	Throttle Resolver Angle 1 (deg)	Throttle Resolver Angle 2 (deg)	N1 Eng1 (% RPM)	N1 Eng2 (% RPM)	N2 Eng1 (% RPM)	N2 Eng2 (% RPM)	Fuel Flow Eng1 (lbs/hr)	Fuel Flow Eng2 (lbs/hr)	Total Fuel Quantity (lbs)	EGT Eng1 (degC)	EGT Eng2 (degC)	EPR Eng1 (ratio)	EPR Eng2 (ratio)	Thrust Reverser Left	Thrust Reverser Right	T/R Right Trans	T/R Left Trans	Eng Fire Left	Eng Fire Right	Engine Start L	Engine Start R	Eng Lo Oil Pres L	Eng Lo Oil Pres R
01:50:00.98	32224	Not Disc	34.72	33.53	53.44	53.94	74.62	74.44	1680	1584		339.00	323.50	0.73	0.74	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:50:01.98	32000	Not Disc	34.50	33.49	51.50	52.44	73.62	73.62	1416	1384		334.00	319.00	0.72	0.72	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:50:02.98	31776	Not Disc	34.45	33.53	49.94	51.50	72.75	72.94	1208	1240		330.00	315.50	0.72	0.72	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:50:03.98	31520	Not Disc	34.50	33.53	48.75	50.56	71.98	72.31	1048	1128		326.00	312.00	0.71	0.71	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		norm
01:50:04.98	31264	Not Disc	34.45	33.57	47.81	49.88	71.25	71.81	936	1048		323.00	309.00	0.69	0.70	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	norm	
01:50:05.98	30944	Not Disc	34.63	34.01	47.00	49.38	70.62	71.31	840	992		320.00	305.50	0.67	0.67	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		norm
01:50:06.98	30592	Not Disc	35.68	34.85	46.50	49.19	70.50	71.19	800	976		317.50	302.00	0.65	0.65	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		
01:50:07.98	30208	Not Disc	36.04	35.16	46.81	49.44	70.88	71.44	816	976		317.00	299.50	0.64	0.63	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:50:08.98	29728	Not Disc	36.17	35.16	47.56	50.00	71.31	71.69	848	1000		316.50	296.50	0.61	0.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	lo	
01:50:09.98	29248	Not Disc	36.17	35.07	48.81	50.94	71.88	72.19	904	1032		315.50	293.50	0.60	0.60	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		lo
01:50:10.98	28672	Not Disc	35.90	35.73	50.06	51.56	72.44	72.38	976	1064		313.50	290.00	0.59	0.59	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		lo
01:50:11.98	28096	Not Disc	40.39	40.56	51.38	52.12	73.00	72.75	1056	1120	127040	311.50	286.50	0.56	0.56	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		lo
01:50:12.98	27456	Not Disc	34.28	33.49	52.81	52.88	73.75	72.88	1176	1128		309.00	282.50	0.58	0.56	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	lo	
01:50:13.98	26752	Not Disc	35.90	37.53	53.00	52.56	72.81	72.44	1120	1128		303.50	277.00	0.55	0.54	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		lo
01:50:14.98	26016	Not Disc	38.67	34.85	52.12	52.50	72.75	72.81	1120	1176		296.00	272.50	0.54	0.56	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		lo
01:50:15.98	25280	Not Disc	34.67	34.06	51.62	52.38	72.69	72.69	1096	1152		291.00	268.00	0.55	0.56	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:50:16.98	24512	Disc	33.97	33.57	50.44	51.56	72.12	72.50	1056	1176		285.50	264.00	0.55	0.56	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run	lo	
01:50:17.98	23776	Disc	34.06	33.57	49.62	51.44	72.31	73.19	1072	1256		282.00	262.50	0.55	0.57	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Eng Run	Eng Run		lo
01:50:18.98	23040	Disc	33.88	33.53	49.75	52.06	73.06	74.12	1136	1352		281.00	263.00	0.56	0.58	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Eng Run		lo
01:50:19.98	22304	Disc	34.41	34.06	50.50	52.81	74.00	74.75	1240	1448		282.00	263.50	0.57	0.59	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Eng Run	Eng Run		
01:50:20.98	21600	Disc	34.45	34.06	51.50	53.19	74.62	74.94	1344	1504		284.00	264.00	0.58	0.60	stwd/tra	stwd/tra	lock/dep	lock/dep			Eng Run	Cutoff	norm	
01:50:21.98	20928	Disc	34.45	67.50	51.94	53.19	74.81	96.00	1416	1344		284.50	768.00	0.59	1.50	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Cutoff	Cutoff		
01:50:22.98	20288	Disc	34.45	35.33	51.88	46.69	74.81	66.19	1440	1368		284.50	230.50	0.59	0.54	stwd/tra	stwd/tra	lock/dep	lock/dep			Cutoff	Cutoff		norm
01:50:23.98	20000	Disc	84.11	84.99	96.00	42.19	66.38	64.00	1312	1256		251.50	226.50	0.53	0.50	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Cutoff	Cutoff		
01:50:24.98	19616	Disc	85.30	85.12	42.06	39.25	63.62	62.44	1328	1384		245.50	223.50	0.48	0.48	stwd/tra	stwd/tra	lock/dep	lock/dep			Cutoff	Cutoff	norm	
01:50:25.98	19104	Disc	85.30	85.12	38.88	38.25	61.94	61.25	1424	0		240.00	219.50	0.47	0.48	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Cutoff	Cutoff		norm
01:50:26.98	18784	Disc	85.30	85.12	37.50	37.44	60.56	60.25	1504	0		235.50	216.00	0.47	0.48	stwd/tra	stwd/tra	lock/dep	lock/dep			Cutoff	Cutoff		
01:50:27.98	18304	Disc	85.30	85.12	36.50	36.81	59.38	59.38	0	0		233.00	214.00	0.47	0.47	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Cutoff	Cutoff		
01:50:28.98	17920	Disc	85.25	85.08	35.75	36.38	58.31	58.56	0	0		231.00	213.00	0.47	0.48	stwd/tra	stwd/tra	lock/dep	lock/dep			Cutoff	Cutoff	norm	
01:50:29.98	17536	Disc	85.30	85.08	35.31	35.94	57.38	57.81	0	0		231.00	213.00	0.47	0.48	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Cutoff	Cutoff		norm
01:50:30.98	17152	Disc	85.30	85.08	34.56	35.19	56.44	57.06	0	0		232.00	214.50	0.47	0.47	stwd/tra	stwd/tra	lock/dep	lock/dep			Cutoff	Cutoff		norm
01:50:31.98	16992	Disc	85.12	84.99	33.94	34.56	55.75	56.31	0	0		234.00	216.50	0.46	0.46	stwd/tra	stwd/tra	lock/dep	lock/dep		norm	Cutoff	Cutoff		
01:50:32.98	16800	Disc	85.12	84.95	33.44	34.12	54.88	55.75	0	0		236.50	219.00	0.47	0.50	stwd/tra	stwd/tra	lock/dep	lock/dep			Cutoff	Cutoff	norm	
01:50:33.98	16704	Disc	85.17	84.95	33.06	33.56	54.06	54.88	0	0		238.50	221.50	0.51	0.52	stwd/tra	stwd/tra	lock/dep	lock/dep	norm		Cutoff	Cutoff		norm
01:50:34.98	16512	Disc	85.17	84.99	32.62	33.12	53.12	54.00	0	0		241.50	224.50	0.51	0.53	stwd/tra	stwd/tra	lock/dep	lock/dep			Cutoff	Cutoff		norm
01:50:35.98	16416		85.12		32.25	32.75	52.12	53.06	0	0		244.50		0.52		stwd/tra	stwd/tra	lock/dep	lock/dep		norm				norm

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Boeing 767-300ER, SU-GAP, October 31, 1999
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Boeing 767-300ER, SU-GAP, October 31, 1999
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Boeing 767-300ER, SU-GAP, October 31, 1999
Finalized Data - Navigation Parameters, DCA00MA006

Vehicle Recorder Division RE-40 - NTSB

Date Printed: May 11, 2000

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Navigation Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
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Radar Local Time (EST)	ADC Select Capt.	DME Dist. Left (nm)	DME Dist. Right (nm)	DME Freq. Left (MHz)	DME Freq. Right (MHz)	Ground Speed (kts)	Gross Weight (lbs)	IRS SEL CPT	Wind Dir. (deg)	Wind Speed (kt)	TAT (degC)	G/S Dev (DDM)	Loc Dev (DDM)	HF Key LEFT	HF Key RIGHT	VHF Key #1	VHF Key #2	VHF Key #3	Mag/True Data	Latitude	Longitude	Drift Angle (deg)	EICAS Switch SEL	F/D On Capt	F/D On F/O
01:38:00.98		115.2				482		Normal			0.50	0.00	0.00	Not	Not	not	not	not	mag	N39°43'11.78"	W072°02'15.66"	0.35		on	on
01:38:01.98	Normal		96.80	113.40		482						0.00	0.00	Not	Not	not	not	not	mag	N39°43'14.88"	W072°02'05.77"	0.35		on	on
01:38:02.98						482					0.25	0.00	0.00	Not	Not	not	not	not	mag	N39°43'17.34"	W072°01'55.88"	0.35		on	on
01:38:03.98						482						0.00	0.00	Not	Not	not	not	not	mag	N39°43'20.44"	W072°01'45.98"	0.35	Left	on	on
01:38:04.98		115.8		110.85		482		Normal			0.25	0.60	0.30	Not	Not	not	not	not	mag	N39°43'23.53"	W072°01'36.73"	0.35		on	on
01:38:05.98	Normal		96.60	113.40		482						0.60	0.30	Not	Not	not	not	not	mag	N39°43'26.61"	W072°01'26.84"	0.35		on	on
01:38:06.98						482					0.00	0.60	0.30	Not	Not	not	not	not	mag	N39°43'29.70"	W072°01'16.95"	0.35		on	on
01:38:07.98					110.85	482						0.60	0.30	Not	Not	not	not	not	mag	N39°43'32.17"	W072°01'07.67"	0.35	Left	on	on
01:38:08.98		116.2		113.40		482		Normal			0.00	0.00	0.00	Not	Not	not	not	not	mag	N39°38'18.86"	W072°00'57.78"	0.35		on	on
01:38:09.98	Normal		96.40	113.40		482					-0.25	0.00	0.00	Not	Not	not	not	not	mag	N39°43'38.36"	W072°00'47.91"	0.35		on	on
01:38:10.98						482						0.00	0.00	Not	Not	not	not	not	mag	N39°43'41.45"	W072°00'38.64"	0.35		on	on
01:38:11.98		116.8		110.85		482		Normal			-0.25	0.00	0.00	Not	Not	not	not	not	mag	N39°43'44.53"	W072°00'28.75"	0.35	Left	on	on
01:38:12.98						482						0.60	0.30	Not	Not	not	not	not	mag	N39°43'47.62"	W072°00'18.88"	0.35		on	on
01:38:13.98	Normal		96.20	113.40		482						0.60	0.30	Not	Not	not	not	not	mag	N39°43'50.09"	W072°00'08.98"	0.35		on	on
01:38:14.98					110.85	484					-0.25	0.60	0.30	Not	Not	not	not	not	mag	N39°43'53.19"	W071°59'59.70"	0.35		on	on
01:38:15.98						484						0.60	0.30	Not	Not	not	not	not	mag	N39°43'56.28"	W071°59'49.81"	0.35	Left	on	on
01:38:16.98		117.2		113.40		484		Normal			-0.50	0.00	0.00	Not	Not	not	not	not	mag	N39°43'59.38"	W071°59'39.92"	0.35		on	on
01:38:17.98	Normal		96.10	113.40		484						0.00	0.00	Not	Not	not	not	not	mag	N39°44'02.45"	W071°59'30.67"	0.35		on	on
01:38:18.98						484					-0.50	0.00	0.00	Not	Not	not	not	not	mag	N39°44'05.55"	W071°59'20.78"	0.35		on	on
01:38:19.98		117.6		110.85		484		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°44'08.64"	W071°59'10.89"	0.35	Left	on	on
01:38:20.98						484					-0.50	0.60	0.30	Not	Not	not	not	not	mag	N39°44'11.73"	W071°59'01.00"	0.35		on	on
01:38:21.98	Normal		95.90	113.40		484						0.60	0.30	Not	Not	not	not	not	mag	N39°44'14.81"	W072°04'08.12"	0.35		on	on
01:38:22.98						484					-0.75	0.60	0.30	Not	Not	not	not	not	mag	N39°44'17.30"	W072°03'58.23"	0.35		on	on
01:38:23.98					110.85	484						0.60	0.30	Not	Not	not	not	not	mag	N39°44'20.38"	W071°58'31.94"	0.35	Left	on	on
01:38:24.98		118.1		113.40		484		Normal			-0.75	0.00	0.00	Not	Not	not	not	not	mag	N39°44'23.47"	W071°58'22.69"	0.35		on	on
01:38:25.98	Normal		95.80	113.40		484					-1.00	0.00	0.00	Not	Not	not	not	not	mag	N39°44'26.56"	W071°58'12.80"	0.35		on	on
01:38:26.98						484						0.00	0.00	Not	Not	not	not	not	mag	N39°44'29.66"	W071°58'02.91"	0.35		on	on
01:38:27.98		118.6		110.85		484		Normal			-1.00	0.00	0.00	Not	Not	not	not	not	mag	N39°44'32.73"	W071°57'53.03"	0.35	Left	on	on
01:38:28.98						484						0.60	0.30	Not	Not	not	not	not	mag	N39°44'35.83"	W071°57'43.73"	0.35		on	on
01:38:29.98	Normal		95.60	113.40		484						0.60	0.30	Not	Not	not	not	not	mag	N39°44'38.92"	W071°57'33.86"	0.35		on	on
01:38:30.98						484					-1.25	0.60	0.30	Not	Not	not	not	not	mag	N39°44'42.02"	W071°57'23.97"	0.35		on	on
01:38:31.98		119.1		110.85		486	391840	Normal				0.60	0.30	Not	Not	not	not	not	mag	N39°44'45.09"	W071°57'14.08"	0.35	Left	on	on
01:38:32.98						486					-1.25	0.00	0.00	Not	Not	not	not	not	mag	N39°44'48.19"	W071°57'04.83"	0.35		on	on
01:38:33.98	Normal		95.50	113.40		486						0.00	0.00	Not	Not	not	not	not	mag	N39°44'51.28"	W071°56'54.94"	0.35		on	on
01:38:34.98						486					-1.50	0.00	0.00	Not	Not	not	not	not	mag	N39°44'54.38"	W071°56'45.05"	0.35		on	on
01:38:35.98		119.6		110.85		486		Normal		18.0		0.00	0.00	Not	Not	not	not	not	mag	N39°44'56.84"	W071°56'35.16"	0.35	Left	on	on
01:38:36.98						486					-1.50	0.60	0.30	Not	Not	not	not	not	mag	N39°44'59.94"	W071°56'25.88"	0.35		on	on
01:38:37.98	Normal		95.20	113.40		486						0.60	0.30	Not	Not	not	not	not	mag	N39°45'03.02"	W071°56'15.98"	0.35		on	on
01:38:38.98						486					-1.75	0.60	0.30	Not	Not	not	not	not	mag	N39°45'06.11"	W071°56'06.09"	0.35		on	on
01:38:39.98		120.1		110.85		486		Normal	253.1			0.60	0.30	Not	Not	not	not	not	mag	N39°45'09.20"	W071°55'56.22"	0.35	Left	on	on
01:38:40.98						486					-1.75	0.00	0.00	Not	Not	not	not	not	mag	N39°45'12.30"	W071°55'46.33"	0.35		on	on
01:38:41.98	Normal		95.10	113.40		486						0.00	0.00	Not	Not	not	not	not	mag	N39°45'15.38"	W071°55'37.06"	0.35		on	on
01:38:42.98						486					-1.75	0.00	0.00	Not	Not	not	not	not	mag	N39°45'18.47"	W071°55'27.19"	0.35		on	on
01:38:43.98		120.6		110.85		486		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°45'21.56"	W071°55'17.30"	0.35	Left	on	on
01:38:44.98						488					-2.00	0.60	0.30	Not	Not	not	not	not	mag	N39°45'24.66"	W071°55'07.41"	0.35		on	on
01:38:45.98	Normal		95.00	113.40		488						0.60	0.30	Not	Not	not	not	not	mag	N39°45'27.73"	W071°54'57.52"	0.35		on	on
01:38:46.98						488					-2.00	0.60	0.30	Not	Not	not	not	not	mag	N39°45'30.83"	W071°54'48.23"	0.35		on	on
01:38:47.98		121.1		110.85		488		Normal				0.60	0.30	Not	Not	not	not	not	mag	N39°45'33.92"	W071°54'38.34"	0.35	Left	on	on
01:38:48.98						488					-2.00	0.00	0.00	Not	Not	not	not	not	mag	N39°45'37.02"	W071°54'28.45"	0.35		on	on
01:38:49.98	Normal		94.90	113.40		488						0.00	0.00	Not	Not	not	not	not	mag	N39°45'39.48"	W071°54'19.58"	0.35		on	on
01:38:50.98						488					-2.00	0.00	0.00	Not	Not	not	not	not	mag	N39°45'42.58"	W071°54'08.69"	0.35		on	on
01:38:51.98		121.6		110.85		488		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°45'45.66"	W071°53'58.80"	0.35	Left	on	on
01:38:52.98						488					-2.25	0.60	0.30	Not	Not	not	not	not	mag	N39°45'48.75"	W071°53'48.91"	0.35		on	on
01:38:53.98	Normal		94.80	113.40		488						0.60	0.30	Not	Not	not	not	not	mag	N39°45'51.84"	W071°58'56.06"	0.35		on	on
01:38:54.98						488					-2.25	0.60	0.30	Not	Not	not	not	not	mag	N39°45'54.94"	W071°58'46.17"	0.35		on	on
01:38:55.98		122.1		113.40		488		Normal				0.60	0.30	Not	Not	not	not	not	mag	N39°45'58.02"	W071°53'19.88"	0.35	Left	on	on
01:38:56.98						488					-2.50	0.00	0.00	Not	Not	not	not	not	mag	N39°46'01.11"	W071°53'09.98"	0.35		on	on
01:38:57.98	Normal		94.50	113.40		488						0.00	0.00	Not	Not	not	not	not	mag	N39°46'04.20"	W071°53'00.11"	0.35		on	on
01:38:58.98						488					-2.50	0.00	0.00	Not	Not	not	not	not	mag	N39°46'07.30"	W071°52'50.22"	0.35		on	on
01:38:59.98		122.6		110.85		488		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°46'10.38"	W071°52'40.33"	0.35	Left	on	on
01:39:00.98						488						0.60	0.30	Not	Not	not	not	not	mag	N39°46'13.47"	W071°52'30.44"	0.35		on	on
01:39:01.98	Normal		94.40	113.40		490						0.60	0.30	Not	Not	not	not	not							

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Radar Local Time (EST)	ADC Select Capt.	DME Dist. Left (nm)	DME Dist. Right (nm)	DME Freq. Left (MHz)	DME Freq. Right (MHz)	Ground Speed (kts)	Gross Weight (lbs)	IRS SEL CPT	Wind Dir. (deg)	Wind Speed (kt)	TAT (degC)	G/S Dev (DDM)	Loc Dev (DDM)	HF Key LEFT	HF Key RIGHT	VHF Key #1	VHF Key #2	VHF Key #3	Mag/True Data	Latitude	Longitude	Drift Angle (deg)	EICAS Switch SEL	F/D On Capt	F/D On F/O	
01:39:20.98		125.1				492		Normal				-3.25	0.00	0.00	Not	Not	not	not	not	mag	N39°47'14.66"	W071°49'13.30"	0.70		on	on
01:39:21.98	Normal					492						0.00	0.00	Not	Not	not	not	not	mag	N39°47'17.73"	W071°49'03.41"	0.70		on	on	
01:39:22.98			93.80	113.40		492						-3.50	0.00	0.00	Not	Not	not	not	mag	N39°47'20.83"	W071°48'53.52"	0.70		on	on	
01:39:23.98						492						0.00	0.00	Not	Not	not	not	not	mag	N39°47'23.30"	W071°48'43.62"	0.70	Left	on	on	
01:39:24.98		125.6			110.85	492		Normal				-3.50	0.60	0.30	Not	Not	not	not	mag	N39°47'26.39"	W071°48'33.73"	0.70		on	on	
01:39:25.98	Normal					492						0.60	0.30	Not	Not	not	not	not	mag	N39°47'29.48"	W071°48'23.84"	0.70		on	on	
01:39:26.98			93.60	113.40		492						-3.50	0.60	0.30	Not	Not	not	not	mag	N39°47'32.58"	W071°53'30.38"	0.70		on	on	
01:39:27.98					110.85	492						0.60	0.30	Not	Not	not	not	not	mag	N39°47'35.66"	W071°48'04.08"	0.70	Left	on	on	
01:39:28.98		126.1				492		Normal				-3.75	0.00	0.00	Not	Not	not	not	mag	N39°47'38.75"	W071°47'54.19"	0.70		on	on	
01:39:29.98	Normal					492						0.00	0.00	Not	Not	not	not	not	mag	N39°47'41.84"	W071°47'44.30"	0.70		on	on	
01:39:30.98			93.50	113.40		492						-3.75	0.00	0.00	Not	Not	not	not	mag	N39°47'44.94"	W071°47'34.41"	0.70		on	on	
01:39:31.98					110.85	494						0.00	0.00	Not	Not	not	not	not	mag	N39°47'48.02"	W071°47'24.53"	0.70	Left	on	on	
01:39:32.98		126.6				494		Normal				-3.75	0.60	0.30	Not	Not	not	not	mag	N39°47'51.11"	W071°47'14.64"	0.70		on	on	
01:39:33.98	Normal					494						0.60	0.30	Not	Not	not	not	not	mag	N39°47'54.20"	W071°47'04.75"	0.70		on	on	
01:39:34.98			93.40	113.40		494						-4.00	0.60	0.30	Not	Not	not	not	mag	N39°47'57.30"	W071°46'54.86"	0.70		on	on	
01:39:35.98					110.85	494	391520					0.60	0.30	Not	Not	not	not	not	mag	N39°48'00.38"	W071°46'44.97"	0.70	Left	on	on	
01:39:36.98		127.1				494		Normal				-4.00	0.00	0.00	Not	Not	not	not	mag	N39°48'03.47"	W071°46'35.09"	0.70		on	on	
01:39:37.98	Normal					494						0.00	0.00	Not	Not	not	not	not	mag	N39°48'06.56"	W071°46'25.20"	0.70		on	on	
01:39:38.98			93.40	113.40		494						-4.00	0.00	0.00	Not	Not	not	not	mag	N39°48'09.66"	W071°46'15.31"	0.70		on	on	
01:39:39.98					110.85	494						0.00	0.00	Not	Not	not	not	not	mag	N39°48'12.73"	W071°46'05.42"	0.70	Left	on	on	
01:39:40.98		127.6				494		Normal		19.0		-4.00	0.60	0.30	Not	Not	not	not	mag	N39°48'15.83"	W071°45'54.94"	0.70		on	on	
01:39:41.98	Normal					496						0.60	0.30	Not	Not	not	not	not	mag	N39°48'18.92"	W071°45'45.05"	0.70		on	on	
01:39:42.98			93.20	113.40		496						-4.25	0.60	0.30	Not	Not	not	not	mag	N39°48'22.02"	W071°45'35.16"	0.70		on	on	
01:39:43.98					110.85	496			263.7			0.60	0.30	Not	Not	not	not	not	mag	N39°48'25.09"	W071°45'25.27"	0.70	Left	on	on	
01:39:44.98		128.1				496		Normal				-4.25	0.00	0.00	Not	Not	not	not	mag	N39°48'28.19"	W071°45'15.38"	0.70		on	on	
01:39:45.98	Normal					496						0.00	0.00	Not	Not	not	not	not	mag	N39°48'30.66"	W071°45'05.50"	0.70		on	on	
01:39:46.98			93.10	113.40		496						-4.25	0.00	0.00	Not	Not	not	not	mag	N39°48'33.75"	W071°44'55.61"	0.70		on	on	
01:39:47.98					110.85	496						0.00	0.00	Not	Not	not	not	not	mag	N39°48'36.84"	W071°44'45.09"	0.70	Left	on	on	
01:39:48.98		128.6				496		Normal				-4.25	0.60	0.30	Not	Not	not	not	mag	N39°48'39.94"	W071°44'35.20"	0.70		on	on	
01:39:49.98	Normal					496						0.60	0.30	Not	Not	not	not	not	mag	N39°48'43.02"	W071°44'25.31"	0.70		on	on	
01:39:50.98			93.00	113.40		496						-4.50	0.60	0.30	Not	Not	not	not	mag	N39°48'46.11"	W071°44'15.42"	0.70		on	on	
01:39:51.98					110.85	496						0.60	0.30	Not	Not	not	not	not	mag	N39°48'49.20"	W071°44'05.53"	0.70	Left	on	on	
01:39:52.98		129.2				496		Normal				-4.50	0.00	0.00	Not	Not	not	not	mag	N39°48'52.19"	W071°43'55.64"	0.70		on	on	
01:39:53.98	Normal					496						0.00	0.00	Not	Not	not	not	not	mag	N39°48'55.38"	W071°43'45.16"	0.70		on	on	
01:39:54.98			93.00	113.40		496						-4.50	0.00	0.00	Not	Not	not	not	mag	N39°48'58.45"	W071°43'35.27"	0.70		on	on	
01:39:55.98					110.85	496						0.00	0.00	Not	Not	not	not	not	mag	N39°49'01.55"	W071°43'25.38"	0.70	Left	on	on	
01:39:56.98		129.8				498		Normal				-4.50	0.60	0.30	Not	Not	not	not	mag	N39°49'04.64"	W071°43'15.50"	0.70		on	on	
01:39:57.98	Normal					498						0.60	0.30	Not	Not	not	not	not	mag	N39°49'07.73"	W071°48'22.02"	0.70		on	on	
01:39:58.98			92.90	113.40		498						-4.75	0.60	0.30	Not	Not	not	not	mag	N39°49'10.81"	W071°48'11.48"	1.05		on	on	
01:39:59.98					110.85	498						0.60	0.30	Not	Not	not	not	not	mag	N39°49'13.91"	W071°42'45.20"	1.05	Left	on	on	
01:40:00.98		130.2				498		Normal				-4.75	0.00	0.00	Not	Not	not	not	mag	N39°49'17.00"	W071°42'35.31"	0.70		on	on	
01:40:01.98	Normal					498						0.00	0.00	Not	Not	not	not	not	mag	N39°49'20.09"	W071°42'25.42"	0.70		on	on	
01:40:02.98			92.80	113.40		498						-4.75	0.00	0.00	Not	Not	not	not	mag	N39°49'23.17"	W071°42'15.53"	0.70		on	on	
01:40:03.98					110.85	498						0.00	0.00	Not	Not	not	not	not	mag	N39°49'26.27"	W071°42'05.05"	0.70	Left	on	on	
01:40:04.98		130.8				498		Normal				-5.00	0.60	0.30	Not	Not	not	not	mag	N39°49'29.36"	W071°41'55.16"	0.70		on	on	
01:40:05.98	Normal					498						0.60	0.30	Not	Not	not	not	not	mag	N39°49'32.45"	W071°41'45.27"	0.70		on	on	
01:40:06.98			92.60	113.40		498						-5.00	0.60	0.30	Not	Not	not	not	mag	N39°49'35.53"	W071°41'35.38"	0.70		on	on	
01:40:07.98					110.85	498						0.60	0.30	Not	Not	not	not	not	mag	N39°49'38.62"	W071°41'25.48"	0.70	Left	on	on	
01:40:08.98		131.2				498		Normal				-5.00	0.00	0.00	Not	Not	not	not	mag	N39°49'41.72"	W071°41'14.97"	0.70		on	on	
01:40:09.98	Normal					498						0.00	0.00	Not	Not	not	not	not	mag	N39°49'44.81"	W071°41'05.08"	0.70		on	on	
01:40:10.98			92.60	113.40		498						-5.25	0.00	0.00	Not	Not	not	not	mag	N39°49'47.89"	W071°40'55.20"	0.70		on	on	
01:40:11.98					110.85	498						0.00	0.00	Not	Not	not	not	not	mag	N39°49'50.98"	W071°40'45.31"	0.70	Left	on	on	
01:40:12.98	Normal					498		Normal				-5.25	0.60	0.30	Not	Not	not	not	mag	N39°49'54.08"	W071°40'34.81"	0.70		on	on	
01:40:13.98					113.40	498						0.60	0.30	Not	Not	not	not	not	mag	N39°49'57.17"	W071°40'24.94"	0.70		on	on	
01:40:14.98			92.50	113.40		498						-5.50	0.60	0.30	Not	Not	not	not	mag	N39°50'00.25"	W071°40'15.05"	0.70		on	on	
01:40:15.98					110.85	498						0.60	0.30	Not	Not	not	not	not	mag	N39°50'03.34"	W071°40'05.16"	0.70	Left	on	on	
01:40:16.98		132.2				498		Normal				-5.50	0.00	0.00	Not	Not	not	not	mag	N39°50'06.44"	W071°39'55.27"	0.70		on	on	
01:40:17.98	Normal					498						0.00	0.00	Not	Not	not	not	not	mag	N39°50'09.53"	W071°39'44.75"	0.70		on	on	
01:40:18.98			92.40	113.40		498						-5.75	0.00	0.00	Not	Not	not	not	mag	N39°50'12.61"	W071°39'34.86"	1.05		on	on	
01:40:19.98					110.85	498						0.00	0.00	Not	Not	not	not	not	mag	N39°50'15.70"	W071°39'24.97"	1.05	Left	on	on	
01:40:20.98						498		Normal				-5.75	0.60	0.30	Not	Not	not	not	mag	N39°50'18.80"	W071°39'15.08"	1.05		on	on	
01:40:21.98	Normal					498						0.60	0.30	Not	Not	not	not	not	mag	N39°50'21.89"	W071°39'04.59"	1.05		on	on	
01:40:22.98																										

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Navigation Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 11, 2000

Radar Local Time (EST)	ADC Select Capt.	DME Dist. Left (nm)	DME Dist. Right (nm)	DME Freq. Left (MHz)	DME Freq. Right (MHz)	Ground Speed (kts)	Gross Weight (lbs)	IRS SEL CPT	Wind Dir. (deg)	Wind Speed (kt)	TAT (degC)	G/S Dev (DDM)	Loc Dev (DDM)	HF Key LEFT	HF Key RIGHT	VHF Key #1	VHF Key #2	VHF Key #3	Mag/True Data	Latitude	Longitude	Drift Angle (deg)	EICAS Switch SEL	F/D On Capt	F/D On F/O
01:40:40.98		135.4				496		Normal			-7.00	0.00	0.00	Not	Not	not	not	not	mag	N39°51'19.97"	W071°35'54.25"	1.76		on	on
01:40:41.98	Normal		92.00	113.40		496					-7.00	0.00	0.00	Not	Not	not	not	not	mag	N39°51'23.06"	W071°35'44.36"	1.76		on	on
01:40:42.98						496								Not	Not	not	not	not	mag	N39°51'26.16"	W071°35'34.48"	1.76		on	on
01:40:43.98		135.9			110.85	496		Normal		25.0		0.00	0.00	Not	Not	not	not	not	mag	N39°51'29.25"	W071°35'24.59"	1.76	Left	on	on
01:40:44.98						496					-7.25	0.60	0.30	Not	Not	not	not	not	mag	N39°51'32.33"	W071°35'14.70"	1.76		on	on
01:40:45.98	Normal		92.00	113.40		496						0.60	0.30	Not	Not	not	not	not	mag	N39°51'35.42"	W071°35'04.19"	1.76		on	on
01:40:46.98						496					-7.25	0.60	0.30	Not	Not	not	not	not	mag	N39°51'38.52"	W071°34'54.30"	1.76		on	on
01:40:47.98					110.85	496			280.5			0.60	0.30	Not	Not	not	not	not	mag	N39°51'41.61"	W071°34'44.41"	1.76	Left	on	on
01:40:48.98		136.4				496		Normal			-7.50	0.00	0.00	Not	Not	not	not	not	mag	N39°51'44.69"	W071°34'34.52"	1.76		on	on
01:40:49.98	Normal		91.90	113.40		496						0.00	0.00	Not	Not	not	not	not	mag	N39°51'47.78"	W071°34'24.64"	1.76		on	on
01:40:50.98						496					-7.50	0.00	0.00	Not	Not	not	not	not	mag	N39°51'50.88"	W071°34'14.14"	1.76		on	on
01:40:51.98		136.9			110.85	496		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°51'53.97"	W071°34'04.25"	1.76	Left	on	on
01:40:52.98						496					-7.75	0.60	0.30	Not	Not	not	not	not	mag	N39°51'57.06"	W071°33'54.36"	1.76		on	on
01:40:53.98	Normal		91.90	113.40		496						0.60	0.30	Not	Not	not	not	not	mag	N39°52'00.14"	W071°33'44.48"	1.76		on	on
01:40:54.98						496					-8.00	0.60	0.30	Not	Not	not	not	not	mag	N39°52'02.61"	W071°33'34.59"	1.76		on	on
01:40:55.98					110.85	496						0.60	0.30	Not	Not	not	not	not	mag	N39°52'05.70"	W071°33'24.70"	1.76	Left	on	on
01:40:56.98		137.4				496		Normal			-8.00	0.00	0.00	Not	Not	not	not	not	mag	N39°52'08.80"	W071°33'14.19"	1.76		on	on
01:40:57.98	Normal		91.90	113.40		496						0.00	0.00	Not	Not	not	not	not	mag	N39°52'11.89"	W071°33'04.30"	1.76		on	on
01:40:58.98						496					-8.00	0.00	0.00	Not	Not	not	not	not	mag	N39°52'14.97"	W071°32'54.41"	1.76		on	on
01:40:59.98		137.9			110.85	496		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°52'18.06"	W071°27'28.11"	1.76	Left	on	on
01:41:00.98						496					-8.25	0.60	0.30	Not	Not	not	not	not	mag	N39°52'21.16"	W071°32'34.03"	1.76		on	on
01:41:01.98	Normal		91.80	113.40		496						0.60	0.30	Not	Not	not	not	not	mag	N39°52'24.25"	W071°32'24.14"	1.76		on	on
01:41:02.98						496					-8.25	0.60	0.30	Not	Not	not	not	not	mag	N39°52'27.33"	W071°32'14.25"	1.76		on	on
01:41:03.98					110.85	496						0.60	0.30	Not	Not	not	not	not	mag	N39°52'30.42"	W071°32'04.36"	2.11	Left	on	on
01:41:04.98		138.4				496		Normal			-8.50	0.00	0.00	Not	Not	not	not	not	mag	N39°52'33.52"	W071°31'54.48"	2.11		on	on
01:41:05.98	Normal		91.80	113.40		496						0.00	0.00	Not	Not	not	not	not	mag	N39°52'36.61"	W071°31'43.95"	2.11		on	on
01:41:06.98						496					-8.50	0.00	0.00	Not	Not	not	not	not	mag	N39°52'39.70"	W071°31'34.08"	2.11		on	on
01:41:07.98		139.0			110.85	498		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°52'42.78"	W071°31'24.19"	2.11	Left	on	on
01:41:08.98						498					-8.75	0.60	0.30	Not	Not	not	not	not	mag	N39°52'45.88"	W071°31'14.30"	2.11		on	on
01:41:09.98	Normal		91.80	113.40		498						0.60	0.30	Not	Not	not	not	not	mag	N39°52'48.97"	W071°31'04.41"	2.11		on	on
01:41:10.98						498					-8.75	0.60	0.30	Not	Not	not	not	not	mag	N39°52'52.06"	W071°30'53.92"	2.11		on	on
01:41:11.98					110.85	498						0.60	0.30	Not	Not	not	not	not	mag	N39°52'55.14"	W071°30'44.03"	2.11	Left	on	on
01:41:12.98		139.5				496		Normal			-8.75	0.00	0.00	Not	Not	not	not	not	mag	N39°52'58.23"	W071°30'34.14"	2.11		on	on
01:41:13.98	Normal		91.60	113.40		498						0.00	0.00	Not	Not	not	not	not	mag	N39°53'01.33"	W071°30'24.25"	2.11		on	on
01:41:14.98						498					-9.00	0.00	0.00	Not	Not	not	not	not	mag	N39°53'04.42"	W071°30'14.36"	2.11		on	on
01:41:15.98		140.0			110.85	498		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°53'06.89"	W071°30'03.84"	2.11	Left	on	on
01:41:16.98						498					-9.00	0.60	0.30	Not	Not	not	not	not	mag	N39°53'09.97"	W071°29'53.95"	2.11		on	on
01:41:17.98	Normal		91.60	113.40		498						0.60	0.30	Not	Not	not	not	not	mag	N39°53'13.06"	W071°29'44.06"	2.11		on	on
01:41:18.98						498					-9.25	0.60	0.30	Not	Not	not	not	not	mag	N39°53'16.16"	W071°29'34.19"	2.11		on	on
01:41:19.98					110.85	498						0.60	0.30	Not	Not	not	not	not	mag	N39°53'19.25"	W071°29'23.69"	2.11	Left	on	on
01:41:20.98		140.5				498		Normal			-9.25	0.00	0.00	Not	Not	not	not	not	mag	N39°53'22.34"	W071°29'13.80"	2.11		on	on
01:41:21.98	Normal		91.60	113.40		498						0.00	0.00	Not	Not	not	not	not	mag	N39°53'25.42"	W071°29'03.92"	2.11		on	on
01:41:22.98						498					-9.50	0.00	0.00	Not	Not	not	not	not	mag	N39°53'28.52"	W071°28'54.03"	2.11		on	on
01:41:23.98		141.0			110.85	498		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°53'31.61"	W071°28'44.14"	2.11	Left	on	on
01:41:24.98						498					-9.50	0.60	0.30	Not	Not	not	not	not	mag	N39°53'34.70"	W071°28'33.62"	1.76		on	on
01:41:25.98	Normal		91.60	113.40		498						0.60	0.30	Not	Not	not	not	not	mag	N39°53'37.78"	W071°28'23.73"	1.76		on	on
01:41:26.98						498					-9.75	0.60	0.30	Not	Not	not	not	not	mag	N39°53'40.88"	W071°28'13.84"	1.76		on	on
01:41:27.98					110.85	498						0.60	0.30	Not	Not	not	not	not	mag	N39°53'43.97"	W071°28'03.95"	1.76	Left	on	on
01:41:28.98		141.5				498		Normal			-9.75	0.00	0.00	Not	Not	not	not	not	mag	N39°53'47.06"	W071°27'53.47"	2.11		on	on
01:41:29.98	Normal		91.60	113.40		498						0.00	0.00	Not	Not	not	not	not	mag	N39°53'50.14"	W071°27'43.58"	2.11		on	on
01:41:30.98						498					-9.75	0.00	0.00	Not	Not	not	not	not	mag	N39°53'52.62"	W071°27'33.69"	2.11		on	on
01:41:31.98		142.1			110.85	498		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°53'55.70"	W071°27'23.39"	2.11	Left	on	on
01:41:32.98						498					-10.00	0.60	0.30	Not	Not	not	not	not	mag	N39°53'58.80"	W071°27'13.28"	2.11		on	on
01:41:33.98	Normal		91.60	113.40		498						0.60	0.30	Not	Not	not	not	not	mag	N39°54'01.89"	W071°27'03.39"	2.11		on	on

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Navigation Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 11, 2000

Radar Local Time (EST)	ADC Select Capt.	DME Dist. Left (nm)	DME Dist. Rght (nm)	DME Freq. Left (MHz)	DME Freq. Right (MHz)	Ground Speed (kts)	Gross Weight (lbs)	IRS SEL CPT	Wind Dir. (deg)	Wind Speed (kt)	TAT (degC)	G/S Dev (DDM)	Loc Dev (DDM)	HF Key LEFT	HF Key RIGHT	VHF Key #1	VHF Key #2	VHF Key #3	Mag/True Data	Latitude	Longitude	Drift Angle (deg)	EICAS Switch SEL	F/D On Capt	F/D On F/O
01:42:00.98		145.8				496		Normal			-11.50	0.00	0.00	Not	Not	not	not	not	mag	N39°55'24.08"	W071°22'32.72"	2.11		on	on
01:42:01.98	Normal		91.60	113.40		496					-11.50	0.00	0.00	Not	Not	not	not	not	mag	N39°55'27.17"	W071°22'32.83"	2.11		on	on
01:42:02.98						496								Not	Not	not	not	not	mag	N39°55'29.64"	W071°22'32.94"	2.11		on	on
01:42:03.98		146.2			110.85	496		Normal			-11.50	0.00	0.00	Not	Not	not	not	not	mag	N39°55'32.73"	W071°16'46.66"	2.11	Left	on	on
01:42:04.98						496								Not	Not	not	not	not	mag	N39°55'35.81"	W071°21'52.56"	2.11		on	on
01:42:05.98	Normal		91.60	113.40		496					-11.75	0.60	0.30	Not	Not	not	not	not	mag	N39°55'38.91"	W071°21'42.67"	2.11		on	on
01:42:06.98						496								Not	Not	not	not	not	mag	N39°55'42.00"	W071°21'32.78"	2.11		on	on
01:42:07.98					110.85	496						0.60	0.30	Not	Not	not	not	not	mag	N39°55'45.09"	W071°21'22.91"	1.76	Left	on	on
01:42:08.98		146.8				496		Normal			-11.75	0.00	0.00	Not	Not	not	not	not	mag	N39°55'48.17"	W071°21'13.02"	1.76		on	on
01:42:09.98	Normal		91.60	113.40		496					-12.00	0.00	0.00	Not	Not	not	not	not	mag	N39°55'51.27"	W071°21'02.50"	1.76		on	on
01:42:10.98						496								Not	Not	not	not	not	mag	N39°55'54.36"	W071°20'52.61"	1.76		on	on
01:42:11.98		147.2			110.85	496		Normal			-12.00	0.00	0.00	Not	Not	not	not	not	mag	N39°55'57.45"	W071°20'42.72"	1.76	Left	on	on
01:42:12.98						496								Not	Not	not	not	not	mag	N39°55'59.92"	W071°20'32.83"	1.76		on	on
01:42:13.98	Normal		91.60	113.40		496					-12.00	0.60	0.30	Not	Not	not	keyed	not	mag	N39°56'03.02"	W071°20'22.94"	1.76		on	on
01:42:14.98						496								Not	Not	not	keyed	not	mag	N39°56'06.09"	W071°20'12.45"	1.76		on	on
01:42:15.98					110.85	496						0.60	0.30	Not	Not	not	keyed	not	mag	N39°56'09.19"	W071°20'02.56"	1.76	Left	on	on
01:42:16.98		147.8				496		Normal			-12.25	0.00	0.00	Not	Not	not	keyed	not	mag	N39°56'12.28"	W071°19'52.67"	1.76		on	on
01:42:17.98	Normal		91.60	113.40		496						0.00	0.00	Not	Not	not	keyed	not	mag	N39°56'15.38"	W071°19'42.78"	1.76		on	on
01:42:18.98						496					-12.25	0.00	0.00	Not	Not	not	keyed	not	mag	N39°56'18.45"	W071°19'32.91"	1.76		on	on
01:42:19.98		148.4			110.85	494		Normal				0.00	0.00	Not	Not	not	keyed	not	mag	N39°56'21.55"	W071°19'22.38"	1.76	Left	on	on
01:42:20.98						494					-12.50	0.60	0.30	Not	Not	not	keyed	not	mag	N39°56'24.64"	W071°19'12.50"	1.76		on	on
01:42:21.98	Normal		91.60	113.40		494						0.60	0.30	Not	Not	not	keyed	not	mag	N39°56'27.73"	W071°19'02.61"	1.76		on	on
01:42:22.98						494					-12.50	0.60	0.30	Not	Not	not	keyed	not	mag	N39°56'30.20"	W071°18'52.72"	1.76		on	on
01:42:23.98					110.85	494						0.60	0.30	Not	Not	not	keyed	not	mag	N39°56'33.30"	W071°18'42.83"	1.76	Left	on	on
01:42:24.98		148.9				494		Normal			-12.50	0.00	0.00	Not	Not	not	not	not	mag	N39°56'36.38"	W071°18'32.94"	1.76		on	on
01:42:25.98	Normal		91.80	113.40		494						0.00	0.00	Not	Not	not	not	not	mag	N39°56'39.47"	W071°18'22.45"	1.76		on	on
01:42:26.98						494					-12.75	0.00	0.00	Not	Not	not	keyed	not	mag	N39°56'42.56"	W071°18'12.56"	1.76		on	on
01:42:27.98		149.4			110.85	494		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°56'45.66"	W071°18'02.67"	1.76	Left	on	on
01:42:28.98						494					-12.75	0.60	0.30	Not	Not	not	not	not	mag	N39°56'48.73"	W071°17'52.78"	1.76		on	on
01:42:29.98	Normal		91.80	113.40		494						0.60	0.30	Not	Not	not	not	not	mag	N39°56'51.83"	W071°17'42.91"	1.76		on	on
01:42:30.98						494					-13.00	0.60	0.30	Not	Not	not	not	not	mag	N39°56'54.92"	W071°17'33.02"	1.76		on	on
01:42:31.98					110.85	494						0.60	0.30	Not	Not	not	not	not	mag	N39°56'57.39"	W071°17'22.50"	1.76	Left	on	on
01:42:32.98		149.9				494		Normal			-13.00	0.00	0.00	Not	Not	not	not	not	mag	N39°57'00.48"	W071°17'12.61"	1.76		on	on
01:42:33.98	Normal		91.80	113.40		494						0.00	0.00	Not	Not	not	not	not	mag	N39°57'03.58"	W071°17'02.72"	1.76		on	on
01:42:34.98						494					-13.25	0.00	0.00	Not	Not	not	not	not	mag	N39°57'06.66"	W071°16'52.83"	1.76		on	on
01:42:35.98		192.0			110.85	494		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°57'09.75"	W071°16'42.94"	1.76	Left	on	on
01:42:36.98						494					-13.25	0.60	0.30	Not	Not	not	not	not	mag	N39°57'12.84"	W071°16'33.05"	1.76		on	on
01:42:37.98	Normal		90.50	115.90		494						0.60	0.30	Not	Not	not	not	not	mag	N39°57'15.94"	W071°16'22.56"	1.76		on	on
01:42:38.98						494					-13.50	0.60	0.30	Not	Not	not	not	not	mag	N39°57'19.02"	W071°16'12.67"	2.11		on	on
01:42:39.98		0.0			115.00	494						0.60	0.30	Not	Not	not	not	not	mag	N39°57'21.50"	W071°16'02.78"	2.11	Left	on	on
01:42:40.98		Normal	90.10	115.90		494		Normal			-13.50	0.00	0.00	Not	Not	not	not	not	mag	N39°57'24.58"	W071°15'52.91"	2.11		on	on
01:42:41.98						494						0.00	0.00	Not	Not	not	not	not	mag	N39°57'27.67"	W071°15'43.02"	2.11		on	on
01:42:42.98					115.00	494						0.00	0.00	Not	Not	not	not	not	mag	N39°57'30.77"	W071°15'33.12"	2.11		on	on
01:42:43.98		192.0				494		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°57'33.86"	W071°15'23.23"	2.11	Left	on	on
01:42:44.98						494					-13.75	0.60	0.30	Not	Not	not	not	not	mag	N39°57'36.94"	W071°15'12.72"	2.11		on	on
01:42:45.98	Normal		89.80	115.90		494				27.0		0.60	0.30	Not	Not	not	not	not	mag	N39°57'40.03"	W071°15'02.83"	2.11		on	on
01:42:46.98						494	390400				-14.00	0.60	0.30	Not	Not	not	not	not	mag	N39°57'43.12"	W071°14'52.94"	2.11		on	on
01:42:47.98		0.0			115.00	494						0.60	0.30	Not	Not	not	not	not	mag	N39°57'45.59"	W071°14'43.05"	2.11	Left	on	on
01:42:48.98		Normal	95.50	116.20		494		Normal			-14.00	0.00	0.00	Not	Not	not	not	not	mag	N39°57'48.69"	W071°14'33.17"	2.11		on	on
01:42:49.98						492						0.00	0.00	Not	Not	not	not	not	mag	N39°57'51.78"	W071°14'23.28"	2.11		on	on
01:42:50.98					117.40	492						0.00	0.00	Not	Not	not	not	not	mag	N39°57'54.86"	W071°14'13.39"	2.11		on	on
01:42:51.98		94.0				492		Normal			-14.25	0.60	0.30	Not	Not	not	not	not	mag	N39°57'57.95"	W071°14'03.50"	2.11	Left	on	on
01:42:52.98						492						0.60	0.30	Not	Not	not	not	not	mag	N39°58'01.05"	W071°13'53.02"	2.11		on	on
01:42:53.98	Normal		95.80	116.20		492				286.9	-14.25	0.60	0.30	Not	Not	not	not	not	mag	N39°58'04.14"	W071°13'43.12"	2.11		on	on
01:																									

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Navigation Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 11, 2000

Radar Local Time (EST)	ADC Select Capt.	DME Dist. Left (nm)	DME Dist. Right (nm)	DME Freq. Left (MHz)	DME Freq. Right (MHz)	Ground Speed (kts)	Gross Weight (lbs)	IRS SEL CPT	Wind Dir. (deg)	Wind Speed (kt)	TAT (degC)	G/S Dev (DDM)	Loc Dev (DDM)	HF Key LEFT	HF Key RIGHT	VHF Key #1	VHF Key #2	VHF Key #3	Mag/True Data	Latitude	Longitude	Drift Angle (deg)	EICAS Switch SEL	F/D On Capt	F/D On F/O
01:43:20.98		91.0				490		Normal			-15.75	0.00	0.00	Not	Not	not	not	not	mag	N39°59'23.86"	W071°09'17.39"	2.46		on	on
01:43:21.98	Normal		97.90	116.20		490						0.00	0.00	Not	Not	not	not	not	mag	N39°59'26.94"	W071°09'07.50"	2.81		on	on
01:43:22.98						490					-16.00	0.00	0.00	Not	Not	not	not	not	mag	N39°59'30.03"	W071°08'57.61"	2.81		on	on
01:43:23.98		90.5				490		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°59'33.12"	W071°08'47.73"	2.81	Left	on	on
01:43:24.98						490					-16.00	0.60	0.30	Not	Not	not	not	not	mag	N39°59'35.59"	W071°08'37.84"	2.81		on	on
01:43:25.98	Normal		98.10	116.20		490						0.60	0.30	Not	Not	not	not	not	mag	N39°59'38.69"	W071°08'27.95"	2.81		on	on
01:43:26.98						490					-16.25	0.60	0.30	Not	Not	not	not	not	mag	N39°59'41.78"	W071°08'18.06"	2.81		on	on
01:43:27.98						488						0.60	0.30	Not	Not	not	not	not	mag	N39°59'44.86"	W071°08'08.17"	2.81	Left	on	on
01:43:28.98		90.1				488		Normal			-16.25	0.00	0.00	Not	Not	not	not	not	mag	N39°59'47.95"	W071°07'58.30"	2.81		on	on
01:43:29.98	Normal		98.40	116.20		488						0.00	0.00	Not	Not	not	not	not	mag	N39°59'51.05"	W071°07'48.41"	2.81		on	on
01:43:30.98						488					-16.50	0.00	0.00	Not	Not	not	not	not	mag	N39°59'53.52"	W071°07'38.52"	2.81		on	on
01:43:31.98		89.6				488		Normal				0.00	0.00	Not	Not	not	not	not	mag	N39°59'56.61"	W071°07'28.62"	3.16	Left	on	on
01:43:32.98						488					-16.50	0.60	0.30	Not	Not	not	not	not	mag	N39°59'59.70"	W071°07'18.11"	3.16		on	on
01:43:33.98	Normal		98.60	116.20		488						0.60	0.30	Not	Not	not	not	not	mag	N40°00'02.78"	W071°07'08.22"	3.16		on	on
01:43:34.98						490					-16.75	0.60	0.30	Not	Not	not	not	not	mag	N40°00'05.88"	W071°06'58.33"	3.16		on	on
01:43:35.98						488						0.60	0.30	Not	Not	not	not	not	mag	N40°00'08.34"	W071°06'48.44"	3.16	Left	on	on
01:43:36.98		89.2				488		Normal			-16.75	0.00	0.00	Not	Not	not	not	not	mag	N40°00'11.44"	W071°06'38.56"	3.16		on	on
01:43:37.98	Normal		99.00	116.20		488						0.00	0.00	Not	Not	not	not	not	mag	N40°00'14.53"	W071°06'28.67"	3.16		on	on
01:43:38.98						488					-16.75	0.00	0.00	Not	Not	not	not	not	mag	N40°00'17.62"	W071°06'18.78"	3.16		on	on
01:43:39.98		88.9				490		Normal				0.00	0.00	Not	Not	not	not	not	mag	N40°00'20.70"	W071°06'08.89"	3.16	Left	on	on
01:43:40.98						490					-17.00	0.60	0.30	Not	Not	not	not	not	mag	N40°00'23.19"	W071°05'59.00"	3.16		on	on
01:43:41.98	Normal		99.40	116.20		490						0.60	0.30	Not	Not	not	not	not	mag	N40°00'26.27"	W071°05'49.12"	3.16		on	on
01:43:42.98						490					-17.00	0.60	0.30	Not	Not	not	not	not	mag	N40°00'29.36"	W071°05'39.23"	3.16		on	on
01:43:43.98						490						0.60	0.30	Not	Not	not	not	not	mag	N40°00'32.45"	W071°05'29.34"	3.16	Left	on	on
01:43:44.98		88.4				490		Normal			-17.00	0.00	0.00	Not	Not	not	not	not	mag	N40°00'35.55"	W071°05'19.45"	3.16		on	on
01:43:45.98	Normal		99.60	116.20		490						0.00	0.00	Not	Not	not	not	not	mag	N40°00'38.62"	W071°05'09.56"	3.16		on	on
01:43:46.98						490					-17.00	0.00	0.00	Not	Not	not	not	not	mag	N40°00'41.11"	W071°04'59.67"	3.16		on	on
01:43:47.98		88.0				490		Normal				0.00	0.00	Not	Not	not	not	not	mag	N40°00'44.19"	W071°04'49.80"	3.16	Left	on	on
01:43:48.98						490					-17.00	0.60	0.30	Not	Not	not	not	not	mag	N40°00'47.28"	W071°04'39.91"	3.16		on	on
01:43:49.98	Normal		99.90	116.20		490						0.60	0.30	Not	Not	not	not	not	mag	N40°00'50.38"	W071°04'30.02"	3.16		on	on
01:43:50.98						490					-17.00	0.60	0.30	Not	Not	not	not	not	mag	N40°00'53.47"	W071°04'20.12"	3.16		on	on
01:43:51.98						490	390080					0.60	0.30	Not	Not	not	not	not	mag	N40°00'56.55"	W071°04'10.23"	3.16	Left	on	on
01:43:52.98		87.6				490		Normal			-17.25	0.00	0.00	Not	Not	not	not	not	mag	N40°00'59.03"	W071°04'00.36"	3.16		on	on
01:43:53.98	Normal		100.20	116.20		488						0.00	0.00	Not	Not	not	not	not	mag	N40°01'02.11"	W071°03'50.47"	3.16		on	on
01:43:54.98						488					-17.25	0.00	0.00	Not	Not	not	not	not	mag	N40°01'05.20"	W071°03'40.58"	3.16		on	on
01:43:55.98		87.2				488		Normal		34.0		0.00	0.00	Not	Not	not	not	not	mag	N40°01'08.30"	W071°03'30.69"	3.16	Left	on	on
01:43:56.98						488					-17.25	0.60	0.30	Not	Not	not	not	not	mag	N40°01'11.39"	W071°03'20.80"	3.16		on	on
01:43:57.98	Normal		100.50	116.20		488						0.60	0.30	Not	Not	not	not	not	mag	N40°01'13.86"	W071°03'10.92"	3.16		on	on
01:43:58.98						488					-17.50	0.60	0.30	Not	Not	not	not	not	mag	N40°01'16.95"	W071°03'01.03"	3.16		on	on
01:43:59.98						488			296.7			0.60	0.30	Not	Not	not	not	not	mag	N40°01'20.03"	W071°02'51.14"	3.16	Left	on	on
01:44:00.98		86.8				488		Normal			-17.50	0.00	0.00	Not	Not	not	not	not	mag	N40°01'23.12"	W071°02'41.25"	3.16		on	on
01:44:01.98	Normal		100.90	116.20		488						0.00	0.00	Not	Not	not	not	not	mag	N40°01'26.22"	W071°02'31.36"	3.16		on	on
01:44:02.98						488					-17.75	0.00	0.00	Not	Not	not	not	not	mag	N40°01'28.69"	W071°02'21.47"	3.16		on	on
01:44:03.98		86.4				488		Normal				0.00	0.00	Not	Not	not	not	not	mag	N40°01'31.78"	W071°02'11.59"	3.16	Left	on	on
01:44:04.98						488					-17.75	0.60	0.30	Not	Not	not	not	not	mag	N40°01'34.86"	W071°02'01.70"	3.16		on	on
01:44:05.98	Normal		101.20	116.20		488						0.60	0.30	Not	Not	not	not	not	mag	N40°01'37.95"	W071°01'51.81"	3.16		on	on
01:44:06.98						488					-17.75	0.60	0.30	Not	Not	not	not	not	mag	N40°01'41.05"	W071°01'41.92"	3.16		on	on
01:44:07.98						488						0.60	0.30	Not	Not	not	not	not	mag	N40°01'43.52"	W071°01'32.03"	3.16	Left	on	on
01:44:08.98		85.9				488		Normal			-18.00	0.00	0.00	Not	Not	not	not	not	mag	N40°01'46.61"	W071°01'22.16"	3.16		on	on
01:44:09.98	Normal		101.50	116.20		488						0.00	0.00	Not	Not	not	not	not	mag	N40°01'49.70"	W071°01'12.27"	3.16		on	on
01:44:10.98						488					-18.00	0.00	0.00	Not	Not	not	not	not	mag	N40°01'52.78"	W071°01'02.38"	3.16	Left	on	on
01:44:11.98		85.5				488		Normal				0.00	0.00	Not	Not	not	not	not	mag	N40°01'55.88"	W071°00'52.48"	3.16		on	on
01:44:12.98						488					-18.25	0.60	0.30	Not	Not	not	not	not	mag	N40°01'58.34"	W071°00'42.59"	3.16		on	on
01:44:13.98	Normal		101.90	116.20		488						0.60	0.30	Not	Not	not	not	not	mag	N40°02'01.44"	W071°00'32.72"	3.16		on	on
01:44:14.98						488					-18.25	0.60	0.30	Not	Not	not	not	not	mag	N40°02'04.53"	W071°00'22.83"	3.16		on	on
01:44:15.98						488						0.60	0.30	Not	Not	not	not	not	mag	N40°02'07.62"	W071°00'12.94"	3.16	Left	on	on
01:44:16.98		85.1				488		Normal			-18.25	0.00	0.00	Not	Not	not	not	not	mag	N40°02'10.70"	W071°00'03.05"	3.16		on	on
01:44:17.98	Normal		102.10	116.20		488						0.00	0.00	Not	Not	not	not	not	mag	N40°02'13.19"	W070°59'53.16"	3.16		on	on
01:44:18.98						488					-18.50	0.00	0.00	Not	Not	not	not	not	mag	N40°02'16.27"	W070°59'43.27"	3.16		on	on
01:44:19.98						488						0.00	0.00	Not	Not	not	not	not	mag	N40°02'19.36"	W070°59'33.39"	3.16	Left	on	on
01:44:20.98		84.8				488		Normal				0.60	0.30	Not	Not	not	not	not	mag	N40°02'22.45"	W070°59'23.50"	3.16		on	on
01:44:21.98	Normal		102.50	116.20		488					-18.50	0.60	0.30	Not	Not	not	not	not	mag	N40°02'25.55"	W070°59'13.61"	3.16		on	on
01:44:22.98																									

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Navigation Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 11, 2000

Radar Local Time (EST)	ADC Select Capt.	DME Dist. Left (nm)	DME Dist. Right (nm)	DME Freq. Left (MHz)	DME Freq. Right (MHz)	Ground Speed (kts)	Gross Weight (lbs)	IRS SEL CPT	Wind Dir. (deg)	Wind Speed (kt)	TAT (degC)	G/S Dev (DDM)	Loc Dev (DDM)	HF Key LEFT	HF Key RIGHT	VHF Key #1	VHF Key #2	VHF Key #3	Mag/True Data	Latitude	Longitude	Drift Angle (deg)	EICAS Switch SEL	F/D On Capt	F/D On F/O		
01:44:40.98	Normal	82.6	104.10	116.20	117.40	490	389760	Normal			-19.00	0.00	0.00	Not	Not	not	not	not	mag	N40°03'21.16"	W070°56'05.14"	3.16	Left	on	on		
01:44:41.98																				N40°03'24.25"	W070°55'55.25"	3.16		on	on		
01:44:42.98																				N40°03'27.34"	W070°55'45.36"	3.52		on	on		
01:44:43.98																				N40°03'30.42"	W070°55'35.48"	3.52		on	on		
01:44:44.98																				N40°03'33.52"	W070°55'25.59"	3.52		on	on		
01:44:45.98																				N40°03'35.98"	W070°55'15.70"	3.52		on	on		
01:44:46.98																				N40°03'39.08"	W070°55'05.81"	3.52		on	on		
01:44:47.98	Normal	81.9	104.80	116.20	117.40	490		Normal			-19.00	0.00	0.00	Not	Not	not	not	not	mag	N40°03'42.17"	W070°54'55.92"	3.52	Left	on	on		
01:44:48.98	N40°03'45.27"	W070°54'46.03"																		3.52	on	on					
01:44:49.98	N40°03'47.73"	W070°54'36.16"																		3.52	on	on					
01:44:50.98	N40°03'50.83"	W070°54'26.27"																		3.52	on	on					
01:44:51.98	N40°03'53.91"	W070°54'16.38"																		3.52	Left	on	on				
01:44:52.98	N40°03'57.00"	W070°54'06.48"																		3.52	on	on					
01:44:53.98	Normal	81.5																		N40°04'00.09"	W070°53'55.97"	3.52	on	on			
01:44:54.98	N40°04'02.56"	W070°53'46.08"	3.52	on	on																						
01:44:55.98	N40°04'05.66"	W070°53'36.19"	3.52	Left	on	on																					
01:44:56.98	Normal	81.1	105.50	116.20	117.40	490		Normal		35.0	-19.00	0.00	0.00	Not	Not	not	not	not	mag	N40°04'08.75"	W070°53'26.31"	3.52	Left	on	on		
01:44:57.98																				N40°04'11.83"	W070°53'16.42"	3.52		on	on		
01:44:58.98																				N40°04'14.31"	W070°53'06.53"	3.52		on	on		
01:44:59.98																				N40°04'17.39"	W070°52'56.64"	3.52		on	on		
01:45:00.98																				N40°04'20.48"	W070°52'46.75"	3.52		on	on		
01:45:01.98																				Normal	80.6	N40°04'23.58"		W070°52'36.86"	3.52	on	on
01:45:02.98																				N40°04'26.05"	W070°52'26.98"	3.52		on	on		
01:45:03.98	N40°04'29.14"	W070°52'17.09"	3.52	Left	on	on																					
01:45:04.98	Normal	80.2	106.10	116.20	117.40	488		Normal	300.2		-19.00	0.00	0.00	Not	Not	not	not	not	mag	N40°04'32.23"	W070°52'07.20"	3.52	Left	on	on		
01:45:05.98																				N40°04'35.31"	W070°51'57.31"	3.52		on	on		
01:45:06.98																				N40°04'38.41"	W070°51'47.42"	3.52		on	on		
01:45:07.98																				N39°59'24.47"	W070°51'37.55"	3.52		Left	on	on	
01:45:08.98																				N39°59'27.56"	W070°51'27.05"	3.52		on	on		
01:45:09.98																				Normal	79.9	N40°04'47.06"		W070°51'17.16"	3.52	on	on
01:45:10.98																				N40°04'50.16"	W070°51'07.27"	3.52		on	on		
01:45:11.98	N40°04'52.62"	W070°50'57.39"	3.52	Left	on	on																					
01:45:12.98	Normal	79.5	106.90	116.20	117.40	488		Normal			-19.00	0.00	0.00	Not	Not	not	not	not	mag	N40°04'55.70"	W070°50'47.50"	3.52	Left	on	on		
01:45:13.98																				N40°04'58.80"	W070°50'37.61"	3.52		on	on		
01:45:14.98																				N40°05'01.89"	W070°50'27.72"	3.52		on	on		
01:45:15.98																				N40°05'04.36"	W070°50'17.83"	3.52		Left	on	on	
01:45:16.98																				N40°05'07.45"	W070°50'07.95"	3.52		on	on		
01:45:17.98																				Normal	79.1	N40°05'10.55"		W070°49'58.06"	3.52	on	on
01:45:18.98																				N40°05'13.62"	W070°49'48.17"	3.52		on	on		
01:45:19.98	N40°05'16.11"	W070°49'38.28"	3.52	Left	on	on																					
01:45:20.98	Normal	78.8	107.50	116.20	117.40	488		Normal			-19.00	0.00	0.00	Not	Not	not	not	not	mag	N40°05'19.19"	W070°49'28.39"	3.52	Left	on	on		
01:45:21.98																				N40°05'22.28"	W070°49'18.52"	3.52		on	on		
01:45:22.98																				N40°05'25.38"	W070°49'08.62"	3.52		on	on		
01:45:23.98																				N40°05'27.84"	W070°48'58.73"	3.52		Left	on	on	
01:45:24.98																				N40°05'30.94"	W070°48'48.84"	3.52		on	on		
01:45:25.98																				Normal	78.4	N40°05'34.03"		W070°48'38.95"	3.52	on	on
01:45:26.98																				N40°05'37.11"	W070°48'29.06"	3.52		on	on		
01:45:27.98	N40°05'39.59"	W070°48'19.19"	3.52	Left	on	on																					
01:45:28.98	Normal	78.0	108.20	116.20	117.40	486		Normal			-19.25	0.00	0.00	Not	Not	not	not	not	mag	N40°05'42.67"	W070°48'09.30"	3.52	Left	on	on		
01:45:29.98																				N40°05'45.77"	W070°47'59.41"	3.52		on	on		
01:45:30.98																				N40°05'48.86"	W070°47'49.52"	3.52		on	on		
01:45:31.98																				N40°05'51.33"	W070°47'39.62"	3.52		Left	on	on	
01:45:32.98																				Normal	77.6	N40°05'54.42"		W070°47'29.75"	3.52	on	on
01:45:33.98																				N40°05'57.52"	W070°47'19.86"	3.52		on	on		
01:45:34.98																				N40°06'00.59"	W070°47'09.97"	3.52		on	on		
01:45:35.98	N40°06'03.08"	W070°47'00.08"	3.52	Left	on	on																					
01:45:36.98	Normal	77.2	109.00	116.20	117.40	486		Normal			-19.50	0.00	0.00	Not	Not	not	not	not	mag	N40°06'06.16"	W070°46'50.19"	3.52	Left	on	on		
01:45:37.98																				N40°06'09.25"	W070°46'40.31"	3.52		on	on		
01:45:38.98																				N40°06'12.34"	W070°46'30.42"	3.52		on	on		
01:45:39.98																				N40°06'14.81"	W070°46'20.53"	3.52		Left	on	on	
01:45:40.98																				N40°06'17.91"	W070°46'10.64"	3.52		on	on		
01:45:41.98																				Normal	76.9	N40°06'20.98"		W070°46'00.75"	3.52	on	on
01:45:42.98																				N40°06'23.47"	W070°45'50.86"	3.52		on	on		
01:45:43.98	N40°06'26.55"	W070°45'40.98"	3.52	Left	on	on																					
01:45:44.98	Normal	76.5	109.60	116.20	117.40	486		Normal			-19.50	0.00	0.00	Not	Not	not	not	not	mag	N40°06'29.64"	W070°45'31.09"	3.52	Left	on	on		
01:45:45.98																				N40°06'32.73"	W070°45'21.20"	3.52		on	on		
01:45:46.98																				N40°06'35.20"	W070°45'11.31"	3.52		on	on		
01:45:47.98																				N40°06'38.30"	W070°45'01.42"	3.52		Left	on	on	
01:45:48.98																				N40°06'41.39"	W070°44'51.55"	3.52		on	on		
01:45:49.98																				Normal	76.1	N40°06'43.86"		W070°44'41.66"	3.52	on	on
01:45:50.98																				N40°06'46.95"	W070°44'31.77"	3.52		on	on		
01:45:51.98	N40°06'50.03"	W070°44'21.88"	3.52	Left	on	on																					
01:45:52.98	Normal	75.8	110.00	116.20	117.40	486		Normal			-19.50	0.00	0.00	Not	Not	not	not	not	mag	N40°06'53.12"	W070°44'11.98"	3.52	Left	on	on		
01:45:53.98																				N40°06'55.59"	W070°44'02.11"	3.52		on	on		
01:45:54.98																				N40°06'58.69"	W070°43'52.22"	3.52		on	on		
01:45:55.98																				N40°07'01.78"	W070°43'42.94"	3.52		Left	on	on	
01:45:56.98																				Normal	75.4	N40°07'04.25"		W070°43'33.05"	3.52	on	on
01:45:57.98																				N40°07'07.34"	W070°43'23.16"	3.52		on	on		
01:45:58.98																				N40°07'10.44"	W070°43'13.27"	3.52		Left	on	on	
01:45:59.98	N40°07'13.52"	W070°43'03.38"	3.52	Left	on	on																					

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Navigation Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 11, 2000

Radar Local Time (EST)	ADC Select Capt.	DME Dist. Left (nm)	DME Dist. Rght (nm)	DME Freq. Left (MHz)	DME Freq. Right (MHz)	Ground Speed (kts)	Gross Weight (lbs)	IRS SEL CPT	Wind Dir. (deg)	Wind Speed (kt)	TAT (degC)	G/S Dev (DDM)	Loc Dev (DDM)	HF Key LEFT	HF Key RIGHT	VHF Key #1	VHF Key #2	VHF Key #3	Mag/True Data	Latitude	Longitude	Drift Angle (deg)	EICAS Switch SEL	F/D On Capt	F/D On F/O
01:46:00.98		75.0				484		Normal			-19.50	0.00	0.00	Not	Not	not	not	not	mag	N40°07'16.00"	W070°42'53.50"	3.52		on	on
01:46:01.98	Normal		111.10	116.20		484					-19.75	0.00	0.00	Not	Not	not	not	not	mag	N40°07'19.08"	W070°42'43.61"	3.52		on	on
01:46:02.98						484								Not	Not	not	not	not	mag	N40°07'22.17"	W070°42'33.72"	3.52		on	on
01:46:03.98						484				37.0				Not	Not	not	not	not	mag	N40°07'24.64"	W070°42'23.83"	3.52	Left	on	on
01:46:04.98		74.6			117.40	484					-19.75	0.60	0.30	Not	Not	not	not	not	mag	N40°07'27.73"	W070°42'13.94"	3.52		on	on
01:46:05.98	Normal					484						0.60	0.30	Not	Not	not	not	not	mag	N40°07'30.83"	W070°42'04.05"	3.52		on	on
01:46:06.98			111.50	116.20		484					-19.75	0.60	0.30	Not	Not	not	not	not	mag	N40°07'33.91"	W070°41'54.17"	3.52		on	on
01:46:07.98						484			300.9			0.60	0.30	Not	Not	not	not	not	mag	N40°07'36.39"	W070°41'44.28"	3.52	Left	on	on
01:46:08.98		74.2				484		Normal			-19.75	0.00	0.00	Not	Not	not	not	not	mag	N40°07'39.47"	W070°41'34.39"	3.52		on	on
01:46:09.98	Normal		111.80	116.20		484						0.00	0.00	Not	Not	not	not	not	mag	N40°07'42.56"	W070°41'24.50"	3.52		on	on
01:46:10.98						484					-19.75	0.00	0.00	Not	Not	not	not	not	mag	N40°07'45.03"	W070°41'14.61"	3.52		on	on
01:46:11.98						484						0.00	0.00	Not	Not	not	not	not	mag	N40°07'48.12"	W070°41'05.36"	3.52	Left	on	on
01:46:12.98		73.9			117.40	484		Normal			-19.75	0.60	0.30	Not	Not	not	not	not	mag	N40°07'51.22"	W070°40'55.47"	3.52		on	on
01:46:13.98	Normal					484						0.60	0.30	Not	Not	not	not	not	mag	N40°07'53.69"	W070°40'45.58"	3.52		on	on
01:46:14.98			112.20	116.20		484					-19.75	0.60	0.30	Not	Not	not	not	not	mag	N40°07'56.78"	W070°40'35.70"	3.52		on	on
01:46:15.98						484						0.60	0.30	Not	Not	not	not	not	mag	N40°07'59.88"	W070°40'25.81"	3.52	Left	on	on
01:46:16.98		73.5				484		Normal			-19.75	0.00	0.00	Not	Not	not	not	not	mag	N40°08'02.34"	W070°40'15.92"	3.52		on	on
01:46:17.98	Normal		112.60	116.20		484						0.00	0.00	Not	Not	not	not	not	mag	N40°08'05.44"	W070°40'06.03"	3.52		on	on
01:46:18.98						484					-19.75	0.00	0.00	Not	Not	not	not	not	mag	N40°08'08.52"	W070°39'56.14"	3.52		on	on
01:46:19.98						484						0.00	0.00	Not	Not	not	not	not	mag	N40°08'11.61"	W070°39'46.27"	3.52	Left	on	on
01:46:20.98		73.2			117.40	484		Normal			-19.75	0.60	0.30	Not	Not	not	not	not	mag	N40°08'14.08"	W070°39'36.38"	3.52		on	on
01:46:21.98	Normal					484						0.60	0.30	Not	Not	not	not	not	mag	N40°08'17.17"	W070°39'26.48"	3.52		on	on
01:46:22.98			113.00	116.20		484					-19.75	0.60	0.30	Not	Not	not	not	not	mag	N40°08'20.27"	W070°39'17.20"	3.52		on	on
01:46:23.98						484						0.60	0.30	Not	Not	not	not	not	mag	N40°08'22.73"	W070°39'07.31"	3.52	Left	on	on
01:46:24.98		72.9				482		Normal			-19.75	0.00	0.00	Not	Not	not	not	not	mag	N40°08'25.83"	W070°38'57.42"	3.52		on	on
01:46:25.98	Normal		113.40	116.20		482						0.00	0.00	Not	Not	not	not	not	mag	N40°08'28.92"	W070°38'47.53"	3.52		on	on
01:46:26.98						482					-19.75	0.00	0.00	Not	Not	not	not	not	mag	N40°08'31.39"	W070°38'37.64"	3.52		on	on
01:46:27.98						482						0.00	0.00	Not	Not	not	not	not	mag	N40°08'34.47"	W070°38'27.77"	3.52	Left	on	on
01:46:28.98		72.5			117.40	482		Normal			-19.75	0.60	0.30	Not	Not	not	not	not	mag	N40°08'37.56"	W070°38'17.88"	3.52		on	on
01:46:29.98	Normal					482						0.60	0.30	Not	Not	not	not	not	mag	N40°08'40.03"	W070°38'07.98"	3.52		on	on
01:46:30.98			113.80	116.20		482					-19.75	0.60	0.30	Not	Not	not	not	not	mag	N40°08'43.12"	W070°37'58.09"	3.52		on	on
01:46:31.98						482						0.60	0.30	Not	Not	not	not	not	mag	N40°08'46.22"	W070°37'48.20"	3.52	Left	on	on
01:46:32.98		72.1				482		Normal			-19.75	0.00	0.00	Not	Not	not	not	not	mag	N40°08'48.69"	W070°37'38.95"	3.52		on	on
01:46:33.98	Normal		114.10	116.20		482						0.00	0.00	Not	Not	not	not	not	mag	N40°08'51.78"	W070°37'29.06"	3.52		on	on
01:46:34.98						482					-20.00	0.00	0.00	Not	Not	not	not	not	mag	N40°08'54.88"	W070°37'19.17"	3.52		on	on
01:46:35.98						482						0.00	0.00	Not	Not	not	not	not	mag	N40°08'57.34"	W070°37'09.30"	3.52	Left	on	on
01:46:36.98		71.9			117.40	482		Normal			-20.00	0.60	0.30	Not	Not	not	not	not	mag	N40°09'00.44"	W070°36'59.41"	3.52		on	on
01:46:37.98	Normal					482						0.60	0.30	Not	Not	not	not	not	mag	N40°09'03.52"	W070°36'49.52"	3.52		on	on
01:46:38.98			114.40	116.20		482					-20.00	0.60	0.30	Not	Not	not	not	not	mag	N40°09'06.00"	W070°36'39.62"	3.52		on	on
01:46:39.98						482						0.60	0.30	Not	Not	not	not	not	mag	N40°09'09.08"	W070°36'29.73"	3.52	Left	on	on
01:46:40.98		71.5				482		Normal			-20.00	0.00	0.00	Not	Not	not	not	not	mag	N40°09'12.17"	W070°36'19.86"	3.52		on	on
01:46:41.98	Normal		114.90	116.20		482						0.00	0.00	Not	Not	not	not	not	mag	N40°09'14.64"	W070°36'09.97"	3.52		on	on
01:46:42.98						482					-20.00	0.00	0.00	Not	Not	not	not	not	mag	N40°09'17.73"	W070°36'00.69"	3.52		on	on
01:46:43.98						482						0.00	0.00	Not	Not	not	not	not	mag	N40°09'20.83"	W070°35'50.80"	3.52	Left	on	on
01:46:44.98		71.1			117.40	482		Normal			-20.00	0.60	0.30	Not	Not	not	not	not	mag	N40°09'23.30"	W070°35'40.91"	3.52		on	on
01:46:45.98	Normal					482						0.60	0.30	Not	Not	not	not	not	mag	N40°09'26.39"	W070°35'31.02"	3.52		on	on
01:46:46.98			115.20	116.20		482					-20.00	0.60	0.30	Not	Not	not	not	not	mag	N40°09'29.47"	W070°35'21.12"	3.52		on	on
01:46:47.98						482						0.60	0.30	Not	Not	not	not	not	mag	N40°09'31.95"	W070°35'11.25"	3.52	Left	on	on
01:46:48.98		70.9				482		Normal			-20.00	0.00	0.00	Not	Not	not	not	not	mag	N40°09'35.03"	W070°35'01.36"	3.52		on	on
01:46:49.98	Normal		115.60	116.20		482						0.00	0.00	Not	Not	not	not	not	mag	N40°09'38.12"	W070°34'51.47"	3.52		on	on
01:46:50.98						482					-20.00	0.00	0.00	Not	Not	not	not	not	mag	N40°09'40.59"	W070°34'41.58"	3.52		on	on
01:46:51.98						482						0.00	0.00	Not	Not	not	not	not	mag	N40°09'43.69"	W070°34'32.34"	3.52	Left	on	on
01:46:52.98	Normal		70.5		116.20	482		Normal			-20.00	0.60	0.30	Not	Not	not	not	not	mag	N40°09'46.78"	W070°34'22.47"	3.52		on	on
01:46:53.98						482						0.60	0.30	Not	Not	not	not	not	mag	N40°09'49.25"	W070°34'12.58"	3.52		on	on
01:46:54.98			116.00	116.20		482					-20.00	0.60	0.30	Not	Not	not	not	not	mag	N40°09'52.34"	W070°34'02.69"	3.52		on	on
01:46:55.98						482						0.60	0.30	Not	Not	not	not	not	mag	N40°09'54.81"	W070°33'52.80"	3.52	Left	on	on
01:46:56.98		70.1				482		Normal			-20.00	0.00	0.00	Not	Not	not	not	not	mag	N40°09'57.90"	W070°33'42.91"	3.52		on	on
01:46:57.98	Normal		116.40	116.20		482						0.00	0.00	Not	Not	not	not	not	mag	N40°10'01.00"	W070°33'33.03"	3.52		on	on
01:46:58.98						482					-20.00	0.00	0.00	Not	Not	not	not	not	mag	N40°10'03.47"	W070°33'23.14"	3.52		on	on
01:46:59.98						482						0.00	0.00	Not	Not	not	not	not	mag	N40°10'06.56"	W070°33'13.25"	3.52	Left	on	on
01:47:00.98						482					-20.00	0.60	0.30	Not	Not	not	not	not	mag	N40°10'09.64"	W070°33'03.97"	3.52		on	on
01:47:01.98	Normal		69.9		116.20	482		Normal				0.60	0.30	Not	Not	not	not	not	mag	N40°10'12.11"	W070°32'54.08"	3.52		on	on
01:47:0																									

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Navigation Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 11, 2000

Radarc Local Time (EST)	ADC Select Capt.	DME Dist. Left (nm)	DME Dist. Right (nm)	DME Freq. Left (MHz)	DME Freq. Right (MHz)	Ground Speed (kts)	Gross Weight (lbs)	IRS SEL CPT	Wind Dir. (deg)	Wind Speed (kt)	TAT (degC)	G/S Dev (DDM)	Loc Dev (DDM)	HF Key LEFT	HF Key RIGHT	VHF Key #1	VHF Key #2	VHF Key #3	Mag/True Data	Latitude	Longitude	Drift Angle (deg)	EICAS Switch SEL	F/D On Capt	F/D On F/O
01:47:20.98		68.2					480					0.00	0.00	Not	Not	not	not	not	mag	N40°11'07.12"	W070°29'47.45"	3.87		on	on
01:47:21.98	Normal		118.60	116.20			480	Normal			-20.00	0.00	0.00	Not	Not	not	not	not	mag	N40°11'09.59"	W070°29'37.56"	3.87		on	on
01:47:22.98							480				-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°11'12.67"	W070°29'27.67"	3.87		on	on
01:47:23.98							480					0.00	0.00	Not	Not	not	not	not	mag	N40°11'15.77"	W070°24'02.02"	3.87	Left	on	on
01:47:24.98		67.9			117.40		480	Normal			-20.25	0.60	0.30	Not	Not	not	not	not	mag	N40°11'18.23"	W070°29'08.53"	3.87		on	on
01:47:25.98	Normal			116.20			480					0.60	0.30	Not	Not	keyed	not	not	mag	N40°11'21.33"	W070°28'58.64"	3.87		on	on
01:47:26.98			119.00				480				-20.25	0.60	0.30	Not	Not	keyed	not	not	mag	N40°11'23.80"	W070°28'48.75"	3.87		on	on
01:47:27.98					117.40		480					0.60	0.30	Not	Not	not	not	not	mag	N40°11'26.89"	W070°28'38.86"	3.87	Left	on	on
01:47:28.98		67.6					480	Normal			-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°11'29.98"	W070°28'28.98"	3.87		on	on
01:47:29.98	Normal		119.40	116.20			480					0.00	0.00	Not	Not	not	not	not	mag	N40°11'32.45"	W070°28'19.09"	3.87		on	on
01:47:30.98							480				-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°11'35.55"	W070°28'09.81"	3.87		on	on
01:47:31.98					117.40		480					0.00	0.00	Not	Not	not	not	not	mag	N40°11'38.64"	W070°27'59.92"	3.87	Left	on	on
01:47:32.98		67.4					480	Normal			-60.25	0.60	0.30	Not	Not	not	not	not	mag	N40°11'41.11"	W070°27'50.03"	3.87		on	on
01:47:33.98	Normal		119.80	116.20			480					0.60	0.30	Not	Not	not	not	not	mag	N40°11'44.20"	W070°27'40.14"	3.87		on	on
01:47:34.98							480				-20.25	0.60	0.30	Not	Not	not	not	not	mag	N40°11'47.28"	W070°27'30.25"	3.87		on	on
01:47:35.98					117.40		480					0.60	0.30	Not	Not	not	not	not	mag	N40°11'49.77"	W070°27'20.38"	3.87	Left	on	on
01:47:36.98		67.0					480	Normal			-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°11'52.84"	W070°27'10.48"	3.87		on	on
01:47:37.98	Normal		120.20	116.20			480					0.00	0.00	Not	Not	not	not	not	mag	N40°11'55.31"	W070°27'01.22"	3.87		on	on
01:47:38.98							480				-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°11'58.41"	W070°26'51.34"	3.87		on	on
01:47:39.98					117.40		480					0.00	0.00	Not	Not	not	not	not	mag	N40°12'01.50"	W070°26'41.45"	3.87	Left	on	on
01:47:40.98		66.8					480	Normal			-20.25	0.60	0.30	Not	Not	keyed	not	not	mag	N40°12'03.97"	W070°26'31.56"	3.87		on	on
01:47:41.98	Normal		120.60	116.20			480					0.60	0.30	Not	Not	keyed	not	not	mag	N40°12'07.06"	W070°26'21.67"	3.87		on	on
01:47:42.98							480				-20.25	0.60	0.30	Not	Not	keyed	not	not	mag	N40°12'10.16"	W070°26'11.78"	3.87		on	on
01:47:43.98					117.40		480					0.60	0.30	Not	Not	keyed	not	not	mag	N40°12'12.62"	W070°26'02.50"	3.87	Left	on	on
01:47:44.98		66.5					480	Normal			-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°12'15.72"	W070°25'52.61"	3.87		on	on
01:47:45.98	Normal		121.00	116.20			480					0.00	0.00	Not	Not	not	not	not	mag	N40°12'18.19"	W070°25'42.73"	3.87		on	on
01:47:46.98							480				-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°12'21.28"	W070°25'32.84"	3.87		on	on
01:47:47.98					117.40		480					0.00	0.00	Not	Not	not	not	not	mag	N40°12'24.36"	W070°25'22.95"	3.87	Left	on	on
01:47:48.98		66.1					480	Normal			-20.25	0.60	0.30	Not	Not	not	not	not	mag	N40°12'26.84"	W070°25'13.06"	3.87		on	on
01:47:49.98	Normal		121.40	116.20			480					0.60	0.30	Not	Not	not	not	not	mag	N40°12'29.92"	W070°25'03.17"	3.87		on	on
01:47:50.98							480				-20.25	0.60	0.30	Not	Not	not	not	not	mag	N40°12'33.02"	W070°24'53.92"	3.87		on	on
01:47:51.98					117.40		480					0.60	0.30	Not	Not	not	not	not	mag	N40°12'35.48"	W070°24'44.03"	3.87	Left	on	on
01:47:52.98		65.9					480	Normal			-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°12'38.58"	W070°24'34.14"	3.87		on	on
01:47:53.98	Normal		121.80	116.20			480					0.00	0.00	Not	Not	not	not	not	mag	N40°12'41.05"	W070°24'24.25"	3.87		on	on
01:47:54.98							480				-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°12'44.14"	W070°24'14.38"	3.87		on	on
01:47:55.98					117.40		480					0.00	0.00	Not	Not	not	not	not	mag	N40°12'47.23"	W070°18'48.08"	3.87	Left	on	on
01:47:56.98		65.6					480	Normal			-20.25	0.60	0.30	Not	Not	not	not	not	mag	N40°12'49.70"	W070°23'55.20"	3.87		on	on
01:47:57.98	Normal		122.10	116.20			480					0.60	0.30	Not	Not	not	not	not	mag	N40°12'52.80"	W070°23'45.31"	3.87		on	on
01:47:58.98							480				-20.25	0.60	0.30	Not	Not	not	not	not	mag	N40°12'55.27"	W070°23'35.42"	3.87		on	on
01:47:59.98					117.40		480					0.60	0.30	Not	Not	not	not	not	mag	N40°12'58.36"	W070°23'25.53"	3.87	Left	on	on
01:48:00.98		65.2					480	Normal			-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°13'01.44"	W070°23'15.44"	3.87		on	on
01:48:01.98	Normal		122.50	116.20			480					0.00	0.00	Not	Not	not	not	not	mag	N40°13'03.92"	W070°23'05.77"	3.87		on	on
01:48:02.98							480				-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°13'07.00"	W070°22'55.88"	3.87		on	on
01:48:03.98					117.40		480					0.00	0.00	Not	Not	not	not	not	mag	N40°13'09.48"	W070°22'46.61"	3.87	Left	on	on
01:48:04.98		65.0					480	Normal			-20.25	0.60	0.30	Not	Not	not	not	not	mag	N40°13'12.56"	W070°22'36.73"	3.87		on	on
01:48:05.98	Normal		122.90	116.20			480					0.60	0.30	Not	Not	not	not	not	mag	N40°13'15.05"	W070°22'26.84"	3.87		on	on
01:48:06.98							480				-20.25	0.60	0.30	Not	Not	not	not	not	mag	N40°13'18.12"	W070°22'16.95"	3.87		on	on
01:48:07.98					117.40		480					0.60	0.30	Not	Not	not	not	not	mag	N40°13'21.22"	W070°22'07.06"	3.87	Left	on	on
01:48:08.98		64.8					478	Normal			-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°13'23.69"	W070°21'57.17"	3.87		on	on
01:48:09.98	Normal		123.20	116.20			478					0.00	0.00	Not	Not	not	not	not	mag	N40°13'26.78"	W070°21'47.89"	3.87		on	on
01:48:10.98							478				-20.25	0.00	0.00	Not	Not	not	not	not	mag	N40°13'29.25"	W070°21'38.00"	3.87		on	on
01:48:11.98					117.40		478			37.0		0.00	0.00	Not	Not	not	not	not	mag	N40°13'32.34"	W070°21'28.12"	3.87	Left	on	on
01:48:12.98	Normal		124.10	116.20			478	Normal			-20.25	0.60	0.30	Not	Not	not	not	not	mag	N40°13'35.44"	W070°21'18.23"	3.87		on	on
01:48:13.98							478					0.60	0.30	Not	Not	not	not	not	mag	N40°13'37.91"	W070°21'08.34				

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Navigation Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 11, 2000

Radar Local Time (EST)	ADC Select Capt.	DME Dist. Left (nm)	DME Dist. Right (nm)	DME Freq. Left (MHz)	DME Freq. Right (MHz)	Ground Speed (kts)	Gross Weight (lbs)	IRS SEL CPT	Wind Dir. (deg)	Wind Speed (kt)	TAT (degC)	G/S Dev (DDM)	Loc Dev (DDM)	HF Key LEFT	HF Key RIGHT	VHF Key #1	VHF Key #2	VHF Key #3	Mag/True Data	Latitude	Longitude	Drift Angle (deg)	EICAS Switch SEL	F/D On Capt	F/D On F/O	
01:48:40.98	Normal	117.5	62.50	111.00	116.40	478	478	Normal			-20.50	0.00	0.00	Not	Not	not	not	not	not	mag	N40°14'54.53"	W070°16'44.48"	3.87		on	on
01:48:41.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°14'57.62"	W070°16'34.59"	3.87		on	on
01:48:42.98	Normal	117.9	62.20	111.00	116.40	478	478	Normal			-20.50	0.00	0.00	Not	Not	not	not	not	not	mag	N40°15'00.09"	W070°16'24.70"	3.87		on	on
01:48:43.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°15'03.19"	W070°16'15.42"	3.87	Left	on	on
01:48:44.98	Normal	118.2	62.10	111.00	116.40	478	478	Normal			-20.50	0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'06.28"	W070°16'05.53"	3.87		on	on
01:48:45.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'08.75"	W070°15'55.64"	3.87		on	on
01:48:46.98	Normal	118.8	61.90	111.00	116.40	478	478	Normal			-20.50	0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'11.84"	W070°15'45.77"	3.87		on	on
01:48:47.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°09'57.91"	W070°15'35.88"	3.87	Left	on	on
01:48:48.98	Normal	119.1	61.60	111.00	116.40	478	478	Normal			-20.50	0.00	0.00	Not	Not	not	not	not	not	mag	N40°10'01.00"	W070°15'26.61"	3.87		on	on
01:48:49.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°15'19.88"	W070°15'16.73"	3.87		on	on
01:48:50.98	Normal	119.5	61.40	111.00	116.40	478	478	Normal			-20.75	0.00	0.00	Not	Not	not	not	not	not	mag	N40°15'22.97"	W070°15'06.84"	3.87		on	on
01:48:51.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°15'26.05"	W070°14'56.95"	3.87	Left	on	on
01:48:52.98	Normal	120.0	60.90	111.00	116.40	478	478	Normal			-20.75	0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'28.52"	W070°14'47.06"	3.87		on	on
01:48:53.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'31.61"	W070°14'37.17"	3.87		on	on
01:48:54.98	Normal	120.8	60.80	111.00	116.40	478	478	Normal			-20.75	0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'34.08"	W070°14'27.89"	3.87		on	on
01:48:55.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'37.17"	W070°14'18.00"	3.87	Left	on	on
01:48:56.98	Normal	121.2	60.50	111.00	116.40	478	478	Normal		38.0	-20.75	0.00	0.00	Not	Not	not	not	not	not	mag	N40°15'39.64"	W070°14'08.11"	3.87		on	on
01:48:57.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°15'42.73"	W070°13'58.23"	3.87		on	on
01:48:58.98	Normal	121.6	60.20	111.00	116.40	478	478	Normal			-20.75	0.00	0.00	Not	Not	not	not	not	not	mag	N40°15'45.83"	W070°13'48.34"	3.87		on	on
01:48:59.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°15'48.30"	W070°13'39.08"	3.87	Left	on	on
01:49:00.98	Normal	122.0	60.10	111.00	116.40	478	478	Normal			-20.75	0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'51.39"	W070°13'29.20"	3.87		on	on
01:49:01.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'53.86"	W070°18'35.72"	3.87		on	on
01:49:02.98	Normal	122.5	60.10	111.00	116.40	478	478	Normal			-20.75	0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'56.95"	W070°18'25.83"	3.87		on	on
01:49:03.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°15'59.42"	W070°12'59.53"	3.87	Left	on	on
01:49:04.98	Normal	123.4	60.20	111.00	116.40	478	478	Normal			-20.75	0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'02.52"	W070°12'49.64"	3.87		on	on
01:49:05.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'05.61"	W070°12'40.36"	3.87		on	on
01:49:06.98	Normal	123.8	59.90	111.00	116.40	478	478	Normal			-20.75	0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'08.08"	W070°12'30.47"	3.87		on	on
01:49:07.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'11.16"	W070°12'20.59"	3.87	Left	on	on
01:49:08.98	Normal	124.2	59.80	111.00	116.40	478	478	Normal			-20.75	0.60	0.30	Not	Not	not	not	not	not	mag	N40°16'13.64"	W070°12'10.70"	3.87		on	on
01:49:09.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°16'16.72"	W070°12'00.81"	3.87		on	on
01:49:10.98	Normal	124.6	59.80	111.00	116.40	478	478	Normal			-20.75	0.60	0.30	Not	Not	not	not	not	not	mag	N40°16'19.20"	W070°11'50.92"	3.87		on	on
01:49:11.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°16'22.28"	W070°11'41.67"	3.87	Left	on	on
01:49:12.98	Normal	125.0	58.80	111.00	116.40	478	478	Normal			-20.75	0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'24.77"	W070°11'31.78"	3.87		on	on
01:49:13.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'27.84"	W070°11'21.89"	3.87		on	on
01:49:14.98	Normal	125.5	58.60	111.00	116.40	478	478	Normal			-20.75	0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'30.33"	W070°11'12.00"	3.87		on	on
01:49:15.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'33.41"	W070°11'02.12"	3.87	Left	on	on
01:49:16.98	Normal	126.0	59.90	111.00	116.40	478	478	Normal			-20.75	0.60	0.30	Not	Not	not	not	not	not	mag	N40°16'36.50"	W070°10'52.83"	3.87		on	on
01:49:17.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°16'38.97"	W070°10'42.95"	3.87		on	on
01:49:18.98	Normal	126.5	59.90	111.00	116.40	478	478	Normal			-20.75	0.60	0.30	Not	Not	not	not	not	not	mag	N40°16'42.06"	W070°10'33.06"	3.87		on	on
01:49:19.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°16'44.53"	W070°10'23.17"	3.87	Left	on	on
01:49:20.98	Normal	127.0	59.80	111.00	116.40	478	478	Normal			-20.75	0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'47.62"	W070°10'13.28"	3.87		on	on
01:49:21.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'50.09"	W070°10'03.39"	3.87		on	on
01:49:22.98	Normal	127.5	59.80	111.00	116.40	478	478	Normal			-20.75	0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'53.19"	W070°09'53.52"	3.87		on	on
01:49:23.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°16'55.66"	W070°09'44.25"	3.87	Left	on	on
01:49:24.98	Normal	128.0	59.80	111.00	116.40	478	478	Normal			-21.00	0.60	0.30	Not	Not	not	not	not	not	mag	N40°16'58.75"	W070°09'34.36"	3.87		on	on
01:49:25.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°17'01.22"	W070°09'24.48"	3.87		on	on
01:49:26.98	Normal	128.5	59.80	111.00	116.40	478	478	Normal			-21.00	0.60	0.30	Not	Not	not	not	not	not	mag	N40°17'04.31"	W070°09'14.59"	3.87		on	on
01:49:27.98												0.60	0.30	Not	Not	not	not	not	not	mag	N40°17'07.41"	W070°09'04.70"	3.87	Left	on	on
01:49:28.98	Normal	129.0	59.80	111.00	116.40	478	478	Normal			-21.00	0.00	0.00	Not	Not	not	not	not	not	mag	N40°17'09.88"	W070°08'54.81"	3.87		on	on
01:49:29.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°17'12.97"	W070°08'45.53"	3.87		on	on
01:49:30.98	Normal	129.5	59.80	111.00	116.40	478	478	Normal			-21.00	0.00	0.00	Not	Not	not	not	not	not	mag	N40°17'14.81"	W070°08'35.64"	3.87		on	on
01:49:31.98												0.00	0.00	Not	Not	not	not	not	not	mag	N40°17'17.91"	W070°08'30.70"	3.87	Left	on	on
01:49:32.98	Normal	130.0	59.80	111.00	116.40	478	478	Normal			-21.00	0.60	0.30	Not	Not	not	not	not								

Egypt Air Flight 990

Boeing 767-300ER, SU-GAP, October 31, 1999
Finalized Data - Slats and Landing Gear Data, DCA00MA006

Vehicle Recorder Division RE-40 - NTSB

Date Printed: May 25, 2000

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:38:00.98	25408	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:01.98	25440	0.0		0.0	2.85	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:02.98	25440	0.0	0.0		2.98	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:03.98	25472	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:04.98	25504	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:05.98	25504	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:06.98	25536	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:07.98	25568	0.0		0.0	2.85	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:08.98	25568	0.1	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:09.98	25600	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:10.98	25632	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:11.98	25632	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:12.98	25664	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:13.98	25664	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:14.98	25696	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:15.98	25728	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:16.98	25728	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:17.98	25760	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:18.98	25792	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:19.98	25792	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:20.98	25824	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:21.98	25856	0.0		0.0	2.85	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:22.98	25888	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:23.98	25888	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:24.98	25920	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:25.98	25952	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:26.98	25952	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:27.98	25984	0.0		0.0	2.92	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:28.98	26016	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:29.98	26016	0.1		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:30.98	26048	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:31.98	26080	0.1		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:32.98	26080	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:33.98	26112	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:34.98	26144	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:35.98	26144	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:36.98	26176	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:37.98	26176	0.1		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:38.98	26208	0.0	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:39.98	26240	0.0		0.0	2.60	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:38:40.98	26240	0.1	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:41.98	26272	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:42.98	26304	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:43.98	26304	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:44.98	26336	0.0	0.0		2.60	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:45.98	26336	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:46.98	26368	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:47.98	26400	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:48.98	26400	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:49.98	26432	0.1		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:50.98	26432	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:51.98	26464	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:52.98	26496	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:53.98	26496	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:54.98	26528	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:55.98	26560	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:56.98	26560	0.1	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:57.98	26592	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:58.98	26592	0.0	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:38:59.98	26624	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:00.98	26656	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:01.98	26656	0.1		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:02.98	26688	0.1	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:03.98	26688	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:04.98	26720	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:05.98	26720	0.1		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:06.98	26752	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:07.98	26752	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:08.98	26784	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:09.98	26816	0.1		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:10.98	26816	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:11.98	26848	0.0		0.0	2.60	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:12.98	26848	0.1	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:13.98	26880	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:14.98	26880	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:15.98	26912	0.1		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:16.98	26944	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:17.98	26944	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:18.98	26976	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:19.98	26976	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:39:20.98	27008	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:21.98	27040	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:22.98	27040	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:23.98	27072	0.0		0.0	2.85	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:24.98	27072	0.0	0.0		2.92	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:25.98	27104	0.1		0.0	2.92	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:26.98	27136	0.1	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:27.98	27136	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:28.98	27168	0.1	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:29.98	27168	0.0		0.0	2.92	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:30.98	27200	0.0	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:31.98	27232	0.1		0.0	2.92	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:32.98	27232	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:33.98	27264	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:34.98	27264	0.1	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:35.98	27296	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:36.98	27296	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:37.98	27328	0.1		0.0	2.85	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:38.98	27328	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:39.98	27360	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:40.98	27360	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:41.98	27392	0.1		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:42.98	27392	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:43.98	27424	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:44.98	27424	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:45.98	27456	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:46.98	27456	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:47.98	27488	0.1		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:48.98	27488	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:49.98	27520	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:50.98	27552	0.1	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:51.98	27552	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:52.98	27584	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:53.98	27584	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:54.98	27616	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:55.98	27616	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:56.98	27648	0.1	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:57.98	27680	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:58.98	27680	0.1	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:39:59.98	27712	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Rad ar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:40:00.98	27712	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:01.98	27744	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:02.98	27776	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:03.98	27776	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:04.98	27808	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:05.98	27808	0.1		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:06.98	27840	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:07.98	27872	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:08.98	27872	0.1	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:09.98	27904	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:10.98	27904	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:11.98	27936	0.1		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:12.98	27968	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:13.98	27968	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:14.98	28000	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:15.98	28032	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:16.98	28032	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:17.98	28064	0.1		0.0	2.92	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:18.98	28096	0.0	0.0		2.92	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:19.98	28128	0.0		0.0	2.85	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:20.98	28160	0.1	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:21.98	28160	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:22.98	28192	0.0	0.0		2.85	0.00	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:23.98	28224	0.0		0.0	2.85	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:24.98	28256	0.0	0.0		2.92	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:25.98	28256	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:26.98	28288	0.1	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:27.98	28320	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:28.98	28352	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:29.98	28352	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:30.98	28384	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:31.98	28416	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:32.98	28448	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:33.98	28480	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:34.98	28480	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:35.98	28512	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:36.98	28544	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:37.98	28544	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:38.98	28576	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:39.98	28608	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radars Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:40:40.98	28640	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:41.98	28640	0.1		0.0	2.85	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:42.98	28672	0.1	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:43.98	28704	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:44.98	28704	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:45.98	28736	0.0		0.0	2.85	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:46.98	28768	0.0	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:47.98	28800	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:48.98	28800	0.0	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:49.98	28832	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:50.98	28864	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:51.98	28864	0.1		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:52.98	28896	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:53.98	28928	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:54.98	28928	0.1	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:55.98	28960	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:56.98	28992	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:57.98	28992	0.1		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:58.98	29024	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:40:59.98	29056	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:00.98	29056	0.1	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:01.98	29088	0.1		0.0	2.60	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:02.98	29088	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:03.98	29120	0.1		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:04.98	29152	0.1	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:05.98	29152	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:06.98	29184	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:07.98	29216	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:08.98	29216	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:09.98	29248	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:10.98	29248	0.1	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:11.98	29280	0.0		0.0	2.60	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:12.98	29312	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:13.98	29312	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:14.98	29344	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:15.98	29376	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:16.98	29376	0.1	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:17.98	29408	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:18.98	29408	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:19.98	29440	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radars Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:41:20.98	29472	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:21.98	29472	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:22.98	29504	0.1	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:23.98	29536	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:24.98	29536	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:25.98	29568	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:26.98	29568	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:27.98	29600	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:28.98	29632	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:29.98	29632	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:30.98	29664	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:31.98	29696	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:32.98	29696	0.0	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:33.98	29728	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:34.98	29760	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:35.98	29760	0.0		0.0	2.60	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:36.98	29792	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:37.98	29824	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:38.98	29824	0.0	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:39.98	29856	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:40.98	29888	0.1	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:41.98	29888	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:42.98	29920	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:43.98	29952	0.0		0.0	2.85	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:44.98	29952	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:45.98	29984	0.1		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:46.98	30016	0.0	0.0		2.60	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:47.98	30048	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:48.98	30048	0.1	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:49.98	30080	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:50.98	30080	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:51.98	30112	0.0		0.0	2.60	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:52.98	30144	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:53.98	30144	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:54.98	30176	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:55.98	30208	0.0		0.0	2.60	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:56.98	30208	0.1	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:57.98	30240	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:58.98	30272	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:41:59.98	30272	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
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Rad ar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:42:00.98	30304	0.0	0.0		2.72	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:01.98	30336	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:02.98	30336	0.1	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:03.98	30368	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:04.98	30400	0.0	0.0		2.60	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:05.98	30400	0.1		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:06.98	30432	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:07.98	30464	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:08.98	30464	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:09.98	30496	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:10.98	30528	0.0	0.0		2.66	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:11.98	30528	0.0		0.0	2.72	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:12.98	30560	0.0	0.0		2.66	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:13.98	30560	0.0		0.0	2.66	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:14.98	30592	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:15.98	30592	0.0		0.0	2.66	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:16.98	30624	0.0	0.0		2.79	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:17.98	30656	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:18.98	30656	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:19.98	30688	0.1		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:20.98	30720	0.0	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:21.98	30720	0.0		0.0	2.98	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:22.98	30752	0.0	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:23.98	30784	0.0		0.0	2.85	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:24.98	30784	0.0	0.0		2.92	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:25.98	30816	0.0		0.0	2.98	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:26.98	30816	0.0	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:27.98	30848	0.0		0.0	2.92	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:28.98	30880	0.1	0.0		2.92	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:29.98	30880	0.0		0.0	2.85	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:30.98	30912	0.1	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:31.98	30944	0.1		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:32.98	30944	0.0	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:33.98	30976	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:34.98	31008	0.1	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:35.98	31008	0.0		0.0	2.85	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:36.98	31040	0.0	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:37.98	31040	0.0		0.0	2.72	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:38.98	31072	0.0	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:39.98	31104	0.1		0.0	2.92	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Rad ar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:42:40.98	31104	0.1	0.0		2.98	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:41.98	31136	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:42.98	31168	0.0	0.0		2.98	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:43.98	31168	0.0		0.0	2.98	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:44.98	31200	0.0	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:45.98	31232	0.0		0.0	2.85	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:46.98	31232	0.1	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:47.98	31264	0.0		0.0	2.98	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:48.98	31264	0.1	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:49.98	31296	0.0		0.0	2.85	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:50.98	31328	0.0	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:51.98	31328	0.0		0.0	2.92	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:52.98	31360	0.0	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:53.98	31392	0.0		0.0	2.85	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:54.98	31392	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:55.98	31424	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:56.98	31456	0.0	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:57.98	31456	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:58.98	31488	0.0	0.0		2.79	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:42:59.98	31520	0.1		0.0	2.85	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:00.98	31520	0.1	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:01.98	31552	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:02.98	31584	0.0	0.0		2.72	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:03.98	31584	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:04.98	31616	0.0	0.0		2.92	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:05.98	31648	0.0		0.0	2.92	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:06.98	31648	0.0	0.0		2.85	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:07.98	31680	0.0		0.0	2.79	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:08.98	31712	0.1	0.0		2.92	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:09.98	31712	0.0		0.0	2.92	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:10.98	31744	0.1	0.0		2.92	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:11.98	31744	0.0		0.0	2.85	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:12.98	31776	0.0	0.0		2.85	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:13.98	31808	0.0		0.0	2.79	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:14.98	31808	0.0	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:15.98	31840	0.0		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:16.98	31840	0.0	0.0		3.04	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:17.98	31872	0.0		0.0	2.98	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:18.98	31904	0.0	0.0		2.98	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:43:19.98	31904	0.0		0.0	3.04	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Rad ar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01: 43: 20. 98	31936	0.0	0.0		3.11	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 21. 98	31936	0.0		0.0	2.92	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 22. 98	31968	0.0	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 23. 98	32000	0.1		0.0	3.04	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 24. 98	32000	0.0	0.0		3.04	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 25. 98	32032	0.0		0.0	2.98	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 26. 98	32032	0.1	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 27. 98	32064	0.0		0.0	3.04	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 28. 98	32064	0.0	0.0		2.92	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 29. 98	32096	0.1		0.0	3.04	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 30. 98	32096	0.0	0.0		2.92	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 31. 98	32128	0.0		0.0	2.98	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 32. 98	32128	0.0	0.0		3.04	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 33. 98	32160	0.0		0.0	3.04	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 34. 98	32160	0.0	0.0		3.11	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 35. 98	32192	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 36. 98	32192	0.0	0.0		3.04	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 37. 98	32224	0.0		0.0	3.04	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 38. 98	32224	0.0	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 39. 98	32256	0.0		0.0	3.04	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 40. 98	32256	0.0	0.0		3.11	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 41. 98	32256	0.0		0.0	3.04	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 42. 98	32288	0.0	0.0		3.11	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 43. 98	32288	0.0		0.0	3.04	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 44. 98	32320	0.0	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 45. 98	32320	0.0		0.0	3.04	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 46. 98	32352	0.0	0.0		2.98	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 47. 98	32352	0.0		0.0	3.04	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 48. 98	32384	0.0	0.0		3.04	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 49. 98	32384	0.0		0.0	2.98	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 50. 98	32416	0.0	0.0		2.98	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 51. 98	32416	0.0		0.0	2.98	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 52. 98	32416	0.0	0.0		2.98	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 53. 98	32448	0.0		0.0	2.98	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 54. 98	32448	0.0	0.0		2.98	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 55. 98	32480	0.1		0.0	3.04	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 56. 98	32480	0.0	0.0		3.04	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 57. 98	32512	0.0		0.0	2.98	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 58. 98	32512	0.1	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 43: 59. 98	32544	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Part Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:44:00.98	32544	0.0	0.0		2.98	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:01.98	32576	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:02.98	32576	0.0	0.0		3.11	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:03.98	32608	0.0		0.0	3.04	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:04.98	32608	0.0	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:05.98	32608	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:06.98	32640	0.0	0.0		3.11	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:07.98	32640	0.0		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:08.98	32672	0.1	0.0		3.11	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:09.98	32672	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:10.98	32704	0.0	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:11.98	32704	0.0		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:12.98	32736	0.0	0.0		2.98	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:13.98	32736	0.1		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:14.98	32768	0.0	0.0		3.11	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:15.98	32768	0.0		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:16.98	32800	0.0	0.0		3.04	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:17.98	32800	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:18.98	32832	0.0	0.0		2.98	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:19.98	32832	0.0		0.0	2.98	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:20.98	32832	0.0	0.0		2.98	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:21.98	32864	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:22.98	32864	0.0	0.0		3.11	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:23.98	32896	0.0		0.0	3.04	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:24.98	32896	0.0	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:25.98	32928	0.0		0.0	3.04	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:26.98	32928	0.1	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:27.98	32960	0.0		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:28.98	32960	0.0	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:29.98	32992	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:30.98	32992	0.0	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:31.98	32992	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:32.98	33024	0.0	0.0		3.11	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:33.98	33024	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:34.98	33024	0.0	0.0		2.92	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:35.98	33024	0.0		0.0	2.98	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:36.98	33024	0.1	0.0		2.98	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:37.98	33024	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:38.98	33024	0.0	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:39.98	33024	0.0		0.0	3.04	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:44:40.98	33024	0.0	0.0		2.98	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:41.98	33024	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:42.98	33024	0.1	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:43.98	33024	0.0		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:44.98	33024	0.0	0.0		3.23	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:45.98	33024	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:46.98	33024	0.0	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:47.98	33024	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:48.98	33024	0.0	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:49.98	33024	0.1		0.0	3.17	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:50.98	32992	0.0	0.0		3.17	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:51.98	32992	0.1		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:52.98	32992	0.0	0.0		3.23	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:53.98	32992	0.1		0.0	3.23	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:54.98	32992	0.0	0.0		3.23	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:55.98	32992	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:56.98	32992	0.0	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:57.98	32992	0.0		0.0	3.36	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:58.98	32992	0.0	0.0		3.17	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:44:59.98	32992	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:00.98	32992	0.1	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:01.98	32992	0.0		0.0	3.23	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:02.98	32992	0.1	0.0		3.23	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:03.98	32992	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:04.98	32992	0.1	0.0		3.23	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:05.98	32992	0.0		0.0	3.17	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:06.98	32992	0.0	0.0		3.23	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:07.98	32992	0.1		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:08.98	32992	0.0	0.0		3.11	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:09.98	32992	0.0		0.0	3.17	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:10.98	32992	0.0	0.0		3.23	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:11.98	32992	0.0		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:12.98	32992	0.1	0.0		3.11	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:13.98	32992	0.0		0.0	3.17	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:14.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:15.98	32992	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:16.98	32992	0.0	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:17.98	32992	0.1		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:18.98	32992	0.0	0.0		3.17	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:19.98	32992	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:45:20.98	32992	0.0	0.0		3.23	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:21.98	32992	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:22.98	32992	0.1	0.0		3.11	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:23.98	32992	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:24.98	32992	0.0	0.0		3.11	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:25.98	32992	0.0		0.0	3.17	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:26.98	32992	0.0	0.0		3.23	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:27.98	32992	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:28.98	32992	0.1	0.0		3.23	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:29.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:30.98	32992	0.0	0.0		3.11	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:31.98	32992	0.1		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:32.98	32992	0.1	0.0		3.23	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:33.98	32992	0.0		0.0	3.30	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:34.98	32992	0.0	0.0		3.23	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:35.98	32992	0.0		0.0	3.23	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:36.98	32992	0.0	0.0		3.11	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:37.98	32992	0.1		0.0	3.17	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:38.98	32992	0.0	0.0		3.17	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:39.98	32992	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:40.98	32992	0.0	0.0		3.30	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:41.98	32992	0.0		0.0	3.23	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:42.98	32992	0.0	0.0		3.17	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:43.98	32992	0.1		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:44.98	32992	0.0	0.0		3.11	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:45.98	32992	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:46.98	32992	0.0	0.0		3.23	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:47.98	32992	0.0		0.0	3.23	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:48.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:49.98	32992	0.0		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:50.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:51.98	32992	0.0		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:52.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:53.98	32992	0.0		0.0	3.23	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:54.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:55.98	32992	0.0		0.0	3.04	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:56.98	32992	0.0	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:57.98	32992	0.0		0.0	3.17	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:58.98	32992	0.0	0.0		3.23	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:45:59.98	32992	0.1		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:46:00.98	32992	0.0	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:01.98	32992	0.0		0.0	3.11	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:02.98	32992	0.1	0.0		3.17	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:03.98	32992	0.0		0.0	3.23	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:04.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:05.98	32992	0.0		0.0	3.30	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:06.98	32992	0.0	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:07.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:08.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:09.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:10.98	32992	0.0	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:11.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:12.98	32992	0.1	0.0		3.11	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:13.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:14.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:15.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:16.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:17.98	32992	0.0		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:18.98	32992	0.0	0.0		3.11	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:19.98	32992	0.1		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:20.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:21.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:22.98	32992	0.1	0.0		3.11	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:23.98	32992	0.1		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:24.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:25.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:26.98	32992	0.1	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:27.98	32992	0.1		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:28.98	32992	0.0	0.0		3.04	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:29.98	32992	0.0		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:30.98	32992	0.1	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:31.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:32.98	32992	0.0	0.0		3.30	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:33.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:34.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:35.98	32992	0.0		0.0	3.17	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:36.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:37.98	32992	0.1		0.0	3.04	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:38.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:39.98	32992	0.0		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Rad ar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Part Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:46:40.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:41.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:42.98	32992	0.0	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:43.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:44.98	32992	0.1	0.0		3.17	-0.18	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:45.98	32992	0.0		0.0	3.30	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:46.98	32992	0.0	0.0		3.11	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:47.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:48.98	32992	0.0	0.0		3.04	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:49.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:50.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:51.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:52.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:53.98	32992	0.1		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:54.98	32992	0.1	0.0		3.04	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:55.98	32992	0.0		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:56.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:57.98	32992	0.0		0.0	3.23	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:58.98	32992	0.0	0.0		3.11	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:46:59.98	32992	0.0		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:00.98	32992	0.0	0.0		3.11	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:01.98	32992	0.1		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:02.98	32992	0.0	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:03.98	32992	0.0		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:04.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:05.98	32992	0.1		0.0	3.04	-0.18	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:06.98	32992	0.0	0.0		3.04	-0.18	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:07.98	32992	0.0		0.0	3.04	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:08.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:09.98	32992	0.1		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:10.98	32992	0.0	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:11.98	32992	0.0		0.0	3.30	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:12.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:13.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:14.98	32992	0.0	0.0		3.04	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:15.98	32992	0.0		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:16.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:17.98	32992	0.1		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:18.98	32992	0.0	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:47:19.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Rad ar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01: 47: 20. 98	32992	0. 0	0. 0		3. 17	- 0. 35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 21. 98	32992	0. 0		0. 0	3. 17	- 0. 35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 22. 98	32992	0. 0	0. 0		3. 11	- 0. 35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 23. 98	32992	0. 0		0. 0	3. 04	- 0. 35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 24. 98	32992	0. 0	0. 0		3. 11	- 0. 35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 25. 98	32992	0. 0		0. 0	3. 11	- 0. 35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 26. 98	32992	0. 1	0. 0		3. 11	- 0. 35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 27. 98	32992	0. 0		0. 0	3. 23	- 0. 35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 28. 98	32992	0. 0	0. 0		3. 11	- 0. 35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 29. 98	32992	0. 1		0. 0	3. 17	- 0. 35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 30. 98	32992	0. 0	0. 0		3. 11	- 0. 35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 31. 98	32992	0. 0		0. 0	3. 23	- 0. 35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 32. 98	32992	0. 1	0. 0		3. 17	- 0. 35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 33. 98	32992	0. 1		0. 0	3. 23	- 0. 35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 34. 98	32992	0. 0	0. 0		3. 17	- 0. 35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 35. 98	32992	0. 0		0. 0	3. 17	- 0. 35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 36. 98	32992	0. 0	0. 0		3. 11	- 0. 35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 37. 98	32992	0. 1		0. 0	3. 11	- 0. 35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 38. 98	32992	0. 0	0. 0		3. 11	- 0. 35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 39. 98	32992	0. 0		0. 0	3. 11	- 0. 35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 40. 98	32992	0. 1	0. 0		3. 23	- 0. 35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 41. 98	32992	0. 0		0. 0	3. 11	- 0. 35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 42. 98	32992	0. 0	0. 0		3. 17	- 0. 35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 43. 98	32992	0. 0		0. 0	3. 11	- 0. 35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 44. 98	32992	0. 0	0. 0		3. 17	- 0. 35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 45. 98	32992	0. 0		0. 0	3. 17	- 0. 35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 46. 98	32992	0. 0	0. 0		3. 11	- 0. 35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 47. 98	32992	0. 1		0. 0	3. 04	- 0. 35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 48. 98	32992	0. 0	0. 0		3. 11	- 0. 35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 49. 98	32992	0. 0		0. 0	3. 17	- 0. 35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 50. 98	32992	0. 0	0. 0		3. 17	- 0. 35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 51. 98	32992	0. 0		0. 0	3. 17	- 0. 35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 52. 98	32992	0. 0	0. 0		3. 23	- 0. 35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 53. 98	32992	0. 0		0. 0	3. 30	- 0. 35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 54. 98	32992	0. 0	0. 0		3. 17	- 0. 35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 55. 98	32992	0. 0		0. 0	3. 17	- 0. 35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 56. 98	32992	0. 0	0. 0		3. 17	- 0. 35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 57. 98	32992	0. 0		0. 0	3. 11	- 0. 35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 58. 98	32992	0. 1	0. 0		3. 11	- 0. 35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01: 47: 59. 98	32992	0. 0		0. 0	3. 11	- 0. 18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:48:00.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:01.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:02.98	32992	0.1	0.0		3.30	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:03.98	32992	0.1		0.0	3.23	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:04.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:05.98	32992	0.0		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:06.98	32992	0.0	0.0		3.11	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:07.98	32992	0.0		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:08.98	32992	0.0	0.0		3.11	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:09.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:10.98	32992	0.1	0.0		3.11	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:11.98	32992	0.1		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:12.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:13.98	32992	0.0		0.0	3.23	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:14.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:15.98	32992	0.0		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:16.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:17.98	32992	0.0		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:18.98	32992	0.0	0.0		3.11	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:19.98	32992	0.1		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:20.98	32992	0.0	0.0		3.11	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:21.98	32992	0.0		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:22.98	32960	0.1	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:23.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:24.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:25.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:26.98	32992	0.0	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:27.98	32992	0.0		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:28.98	32992	0.0	0.0		3.11	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:29.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:30.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:31.98	32992	0.0		0.0	3.23	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:32.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:33.98	32992	0.1		0.0	3.30	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:34.98	32992	0.0	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:35.98	32992	0.1		0.0	3.23	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:36.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:37.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:38.98	32992	0.1	0.0		3.04	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:39.98	32992	0.0		0.0	3.04	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Rad ar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:48:40.98	32992	0.0	0.0		3.04	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:41.98	32992	0.0		0.0	3.04	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:42.98	32992	0.1	0.0		3.11	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:43.98	32992	0.1		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:44.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:45.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:46.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:47.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:48.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:49.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:50.98	32992	0.0	0.0		3.04	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:51.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:52.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:53.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:54.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:55.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:56.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:57.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:58.98	32992	0.1	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:48:59.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:00.98	32992	0.0	0.0		3.11	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:01.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:02.98	32992	0.0	0.0		3.04	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:03.98	32992	0.0		0.0	3.04	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:04.98	32992	0.0	0.0		3.11	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:05.98	32992	0.0		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:06.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:07.98	32992	0.0		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:08.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:09.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:10.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:11.98	32992	0.1		0.0	3.11	-0.18	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:12.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:13.98	32992	0.0		0.0	3.04	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:14.98	32992	0.0	0.0		3.04	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:15.98	32992	0.1		0.0	3.11	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:16.98	32992	0.0	0.0		3.11	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:17.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:18.98	32992	0.1	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:19.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Slats and Landing Gear Data, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 25, 2000

Radar Local Time (EST)	Altitude (ft)	Flap Handle Pos (deg)	TE Flap Pos L (deg)	TE Flap Pos R (deg)	Horiz. Stab. Posn (units)	Rudder Posn (deg)	Yaw Damper Left	Yaw Damper Right	L/G Pos L Sys1	L/G Pos Nose Sys1	L/G Pos R Sys1	Land2 Green	Land3 Green	Flap Limit (1=Eng)	Slat LE All Fully Ext	Slat LE All Ext	Slat LE Disagree	Slat LE LI	Slat LE LO	Slat LE RI	Slat LE RO
01:49:20.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:21.98	32992	0.0		0.0	3.30	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:22.98	32992	0.0	0.0		3.30	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:23.98	32992	0.1		0.0	3.23	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:24.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:25.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:26.98	32992	0.0	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:27.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:28.98	32992	0.0	0.0		3.30	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:29.98	32992	0.0		0.0	3.30	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:30.98	32992	0.1	0.0		3.36	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:31.98	32992	0.0		0.0	3.23	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:32.98	32992	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:33.98	32992	0.0		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:34.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:35.98	32992	0.0		0.0	3.04	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:36.98	32992	0.0	0.0		3.04	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:37.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:38.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:39.98	32992	0.0		0.0	3.23	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:40.98	32992	0.0	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:41.98	32992	0.1		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:42.98	32992	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:43.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:44.98	32992	0.1	0.0		3.11	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:45.98	32992	0.0		0.0	3.11	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:46.98	32992	0.0	0.0		3.11	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:47.98	32992	0.0		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:48.98	32992	0.1	0.0		3.17	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:49.98	32992	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:50.98	32960	0.0	0.0		3.23	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:51.98	32960	0.1		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:52.98	32928	0.0	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:53.98	32928	0.0		0.0	3.23	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:54.98	32864	0.0	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:55.98	32832	0.1		0.0	3.17	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:56.98	32768	0.1	0.0		3.23	-0.35	eng	eng	up			not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:57.98	32672	0.0		0.0	3.17	-0.35	eng	eng			up	not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:58.98	32544	0.1	0.0		3.17	-0.35	eng	eng		up		not	not	Not Enga	not all	not all	agree	not	not	not	not
01:49:59.98	32384	0.0		0.0	3.23	-0.35	eng	eng				not	not	Not Enga	not all	not all	agree	not	not	not	not

Egypt Air Flight 990

Boeing 767-300ER, SU-GAP, October 31, 1999
Finalized Data - Miscellaneous Parameters, DCA00MA006

Vehicle Recorder Division RE-40 - NTSB

Date Printed: May 11, 2000

Egypt Air Flight 990

Boeing 767-300ER, SU-GAP, October 31, 1999
Finalized Data - Engine Vibration Parameters, DCA00MA006

Vehicle Recorder Division RE-40 - NTSB

Date Printed: May 11, 2000

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Engine Vibration Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 11, 2000

Radar Local Time	Sync Codes	Superframe Counter	Pressure Altitude (ft)	Vibration Select SW	Eng Vib Left	Eng Vib Right	Eng Vib Filter 1 Fan Left	Eng Vib Filter 1 Fan Right	Eng Vib Filter 2 LPT Left	Eng Vib Filter 2 LPT Right	Eng Vib Filter 3 N2 Left	Eng Vib Filter 3 N2 Right	EICAS SW SEL	EFIS SEL SW CAPT	FMS CAPT SW	APU Fire	PVD Enable	Inner Marker	Middle Marker	Outer Marker
01:38:00.98	583		25408	low											Normal		enable	no	no	no
01:38:01.98	1464		25440	low													enable	no	no	no
01:38:02.98	2631	5	25440	low										Normal		Norm	enable	no	no	no
01:38:03.98	3512		25472	low			0.00						Left				enable	no	no	no
01:38:04.98	583		25504	low											Normal		enable	no	no	no
01:38:05.98	1464		25504	low													enable	no	no	no
01:38:06.98	2631	6	25536	low										Normal		Norm	enable	no	no	no
01:38:07.98	3512		25568	low				2.88					Left				enable	no	no	no
01:38:08.98	583		25568	low											Normal		enable	no	no	no
01:38:09.98	1464		25600	low													enable	no	no	no
01:38:10.98	2631	7	25632	low										Normal		Norm	enable	no	no	no
01:38:11.98	3512		25632	low									Left				enable	no	no	no
01:38:12.98	583		25664	low							0.00				Normal		enable	no	no	no
01:38:13.98	1464		25664	low													enable	no	no	no
01:38:14.98	2631	8	25696	low										Normal		Norm	enable	no	no	no
01:38:15.98	3512		25728	low								2.88	Left				enable	no	no	no
01:38:16.98	583		25728	low											Normal		enable	no	no	no
01:38:17.98	1464		25760	low													enable	no	no	no
01:38:18.98	2631	9	25792	low										Normal		Norm	enable	no	no	no
01:38:19.98	3512		25792	low									Left				enable	no	no	no
01:38:20.98	583		25824	low						0.00					Normal		enable	no	no	no
01:38:21.98	1464		25856	low													enable	no	no	no
01:38:22.98	2631	10	25888	low										Normal		Norm	enable	no	no	no
01:38:23.98	3512		25888	low							2.88		Left				enable	no	no	no
01:38:24.98	583		25920	low											Normal		enable	no	no	no
01:38:25.98	1464		25952	low													enable	no	no	no
01:38:26.98	2631	11	25952	low										Normal		Norm	enable	no	no	no
01:38:27.98	3512		25984	low									Left				enable	no	no	no
01:38:28.98	583		26016	low											Normal		enable	no	no	no
01:38:29.98	1464		26016	low													enable	no	no	no
01:38:30.98	2631	12	26048	low										Normal		Norm	enable	no	no	no
01:38:31.98	3512		26080	low									Left				enable	no	no	no
01:38:32.98	583		26080	low											Normal		enable	no	no	no
01:38:33.98	1464		26112	low													enable	no	no	no
01:38:34.98	2631	13	26144	low										Normal		Norm	enable	no	no	no
01:38:35.98	3512		26144	low									Left				enable	no	no	no
01:38:36.98	583		26176	low											Normal		enable	no	no	no
01:38:37.98	1464		26176	low													enable	no	no	no
01:38:38.98	2631	14	26208	low										Normal		Norm	enable	no	no	no
01:38:39.98	3512		26240	low									Left				enable	no	no	no
01:38:40.98	583		26240	low											Normal		enable	no	no	no
01:38:41.98	1464		26272	low													enable	no	no	no
01:38:42.98	2631	15	26304	low										Normal		Norm	enable	no	no	no
01:38:43.98	3512		26304	low									Left				enable	no	no	no
01:38:44.98	583		26336	low											Normal		enable	no	no	no
01:38:45.98	1464		26336	low													enable	no	no	no
01:38:46.98	2631	0	26368	low										Normal		Norm	enable	no	no	no
01:38:47.98	3512		26400	low									Left				enable	no	no	no
01:38:48.98	583		26400	low											Normal		enable	no	no	no
01:38:49.98	1464		26432	low													enable	no	no	no
01:38:50.98	2631	1	26432	low									Left				enable	no	no	no
01:38:51.98	3512		26464	low											Normal		enable	no	no	no
01:38:52.98	583		26496	low													enable	no	no	no
01:38:53.98	1464		26496	low													enable	no	no	no
01:38:54.98	2631	2	26528	low										Normal		Norm	enable	no	no	no
01:38:55.98	3512		26560	low									Left				enable	no	no	no
01:38:56.98	583		26560	low											Normal		enable	no	no	no
01:38:57.98	1464		26592	low													enable	no	no	no
01:38:58.98	2631	3	26592	low										Normal		Norm	enable	no	no	no
01:38:59.98	3512		26624	low									Left				enable	no	no	no
01:39:00.98	583		26656	low		0.53											enable	no	no	no
01:39:01.98	1464		26656	low											Normal		enable	no	no	no
01:39:02.98	2631	4	26688	low										Normal		Norm	enable	no	no	no
01:39:03.98	3512		26688	low									Left				enable	no	no	no
01:39:04.98	583		26720	low											Normal		enable	no	no	no
01:39:05.98	1464		26720	low													enable	no	no	no
01:39:06.98	2631	5	26752	low										Normal		Norm	enable	no	no	no
01:39:07.98	3512		26752	low									Left				enable	no	no	no
01:39:08.98	583		26784	low											Normal		enable	no	no	no
01:39:09.98	1464		26816	low													enable	no	no	no
01:39:10.98	2631	6	26816	low										Normal		Norm	enable	no	no	no
01:39:11.98	3512		26848	low							2.88		Left				enable	no	no	no
01:39:12.98	583		26848	low													enable	no	no	no
01:39:13.98	1464		26880	low											Normal		enable	no	no	no
01:39:14.98	2631	7	26880	low										Normal			enable	no	no	no
01:39:15.98	3512		26912	low									Left				enable	no	no	no
01:39:16.98	583		26944	low											Normal		enable	no	no	no
01:39:17.98	1464		26944	low													enable	no	no	no
01:39:18.98	2631	8	26976	low										Normal		Norm	enable	no	no	no
01:39:19.98	3512		26976	low									Left				enable	no	no	no

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Radar Local Time	Sync Codes	Superframe Counter	Pressure Altitude (ft)	Vibration Select SW	Eng Vib Left	Eng Vib Right	Eng Vib Filter 1 Fan Left	Eng Vib Filter 1 Fan Right	Eng Vib Filter 2 LPT Left	Eng Vib Filter 2 LPT Right	Eng Vib Filter 3 N2 Left	Eng Vib Filter 3 N2 Right	EICAS SW SEL	EFIS SEL SW CAPT	FMS CAPT SW	APU Fire	PVD Enable	Inner Marker	Middle Marker	Outer Marker
(EST)																				
01:39:20.98	583		27008	low											Normal		enable	no	no	no
01:39:21.98	1464		27040	low												Norm	enable	no	no	no
01:39:22.98	2631	9	27040	low													enable	no	no	no
01:39:23.98	3512		27072	low						0.00			Left	Normal			enable	no	no	no
01:39:24.98	583		27072	low												Normal	enable	no	no	no
01:39:25.98	1464		27104	low													enable	no	no	no
01:39:26.98	2631	10	27136	low											Normal	Norm	enable	no	no	no
01:39:27.98	3512		27136	low									Left				enable	no	no	no
01:39:28.98	583		27168	low						2.88							enable	no	no	no
01:39:29.98	1464		27168	low												Normal	enable	no	no	no
01:39:30.98	2631	11	27200	low													enable	no	no	no
01:39:31.98	3512		27232	low									Left	Normal			enable	no	no	no
01:39:32.98	583		27232	low												Normal	enable	no	no	no
01:39:33.98	1464		27264	low													enable	no	no	no
01:39:34.98	2631	12	27264	low											Normal	Norm	enable	no	no	no
01:39:35.98	3512		27296	low									Left				enable	no	no	no
01:39:36.98	583		27296	low													enable	no	no	no
01:39:37.98	1464		27328	low													enable	no	no	no
01:39:38.98	2631	13	27328	low											Normal	Norm	enable	no	no	no
01:39:39.98	3512		27360	low									Left				enable	no	no	no
01:39:40.98	583		27360	low												Normal	enable	no	no	no
01:39:41.98	1464		27392	low													enable	no	no	no
01:39:42.98	2631	14	27392	low											Normal	Norm	enable	no	no	no
01:39:43.98	3512		27424	low									Left				enable	no	no	no
01:39:44.98	583		27424	low													enable	no	no	no
01:39:45.98	1464		27456	low													enable	no	no	no
01:39:46.98	2631	15	27456	low											Normal	Norm	enable	no	no	no
01:39:47.98	3512		27488	low									Left				enable	no	no	no
01:39:48.98	583		27488	low													enable	no	no	no
01:39:49.98	1464		27520	low													enable	no	no	no
01:39:50.98	2631	0	27552	low											Normal	Norm	enable	no	no	no
01:39:51.98	3512		27552	low									Left				enable	no	no	no
01:39:52.98	583		27584	low													enable	no	no	no
01:39:53.98	1464		27584	low													enable	no	no	no
01:39:54.98	2631	1	27616	low											Normal	Norm	enable	no	no	no
01:39:55.98	3512		27616	low									Left				enable	no	no	no
01:39:56.98	583		27648	low													enable	no	no	no
01:39:57.98	1464		27680	low													enable	no	no	no
01:39:58.98	2631	2	27680	low											Normal	Norm	enable	no	no	no
01:39:59.98	3512		27712	low									Left				enable	no	no	no
01:40:00.98	583		27712	low													enable	no	no	no
01:40:01.98	1464		27744	low													enable	no	no	no
01:40:02.98	2631	3	27776	low											Normal	Norm	enable	no	no	no
01:40:03.98	3512		27776	low		0.51							Left				enable	no	no	no
01:40:04.98	583		27808	low													enable	no	no	no
01:40:05.98	1464		27808	low													enable	no	no	no
01:40:06.98	2631	4	27840	low											Normal	Norm	enable	no	no	no
01:40:07.98	3512		27872	low									Left				enable	no	no	no
01:40:08.98	583		27872	low													enable	no	no	no
01:40:09.98	1464		27904	low													enable	no	no	no
01:40:10.98	2631	5	27904	low											Normal	Norm	enable	no	no	no
01:40:11.98	3512		27936	low									Left				enable	no	no	no
01:40:12.98	583		27968	low													enable	no	no	no
01:40:13.98	1464		27968	low													enable	no	no	no
01:40:14.98	2631	6	28000	low													enable	no	no	no
01:40:15.98	3512		28032	low									Left				enable	no	no	no
01:40:16.98	583		28032	low													enable	no	no	no
01:40:17.98	1464		28064	low													enable	no	no	no
01:40:18.98	2631		28096	low													enable	no	no	no
01:40:19.98	3512	7	28128	low													enable	no	no	no
01:40:20.98	583		28160	low													enable	no	no	no
01:40:21.98	1464		28160	low													enable	no	no	no
01:40:22.98	2631	8	28192	low											Normal	Norm	enable	no	no	no
01:40:23.98	3512		28224	low									Left				enable	no	no	no
01:40:24.98	583		28256	low													enable	no	no	no
01:40:25.98	1464		28256	low													enable	no	no	no
01:40:26.98	2631	9	28288	low											Normal	Norm	enable	no	no	no
01:40:27.98	3512		28320	low									Left				enable	no	no	no
01:40:28.98	583		28352	low													enable	no	no	no
01:40:29.98	1464		28352	low													enable	no	no	no
01:40:30.98	2631	10	28384	low											Normal		enable	no	no	no
01:40:31.98	3512		28416	low									Left				enable	no	no	no
01:40:32.98	583		28448	low													enable	no	no	no
01:40:33.98	1464		28480	low													enable	no	no	no
01:40:34.98	2631	11	28480	low											Normal		enable	no	no	no
01:40:35.98	3512		28512	low									Left				enable	no	no	no
01:40:36.98	583		28544	low													enable	no	no	no
01:40:37.98	1464		28544	low													enable	no	no	no
01:40:38.98	2631	12	28576	low											Normal		enable	no	no	no
01:40:39.98	3512		28608	low									Left				enable	no	no	no

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Radar Local Time	Sync Codes	Superframe Counter	Pressure Altitude (ft)	Vibration Select SW	Eng Vib Left	Eng Vib Right	Eng Vib Filter 1 Fan Left	Eng Vib Filter 1 Fan Right	Eng Vib Filter 2 LPT Left	Eng Vib Filter 2 LPT Right	Eng Vib Filter 3 N2 Left	Eng Vib Filter 3 N2 Right	EICAS SW SEL	EFIS SEL SW CAPT	FMS CAPT SW	APU Fire	PVD Enable	Inner Marker	Middle Marker	Outer Marker
(EST)																				
01:40:40.98	583		28640	low											Normal		enable	no	no	no
01:40:41.98	1464		28640	low													enable	no	no	no
01:40:42.98	2631	13	28672	low										Normal		Norm	enable	no	no	no
01:40:43.98	3512		28704	low									Left				enable	no	no	no
01:40:44.98	583		28704	low											Normal		enable	no	no	no
01:40:45.98	1464		28736	low													enable	no	no	no
01:40:46.98	2631	14	28768	low										Normal		Norm	enable	no	no	no
01:40:47.98	3512		28800	low									Left				enable	no	no	no
01:40:48.98	583		28800	low											Normal		enable	no	no	no
01:40:49.98	1464		28832	low													enable	no	no	no
01:40:50.98	2631	15	28864	low										Normal		Norm	enable	no	no	no
01:40:51.98	3512		28864	low									Left				enable	no	no	no
01:40:52.98	583		28896	low											Normal		enable	no	no	no
01:40:53.98	1464		28928	low													enable	no	no	no
01:40:54.98	2631	0	28928	low										Normal		Norm	enable	no	no	no
01:40:55.98	3512		28960	low									Left				enable	no	no	no
01:40:56.98	583		28992	low											Normal		enable	no	no	no
01:40:57.98	1464		28992	low													enable	no	no	no
01:40:58.98	2631	1	29024	low										Normal		Norm	enable	no	no	no
01:40:59.98	3512		29056	low									Left				enable	no	no	no
01:41:00.98	583		29056	low											Normal		enable	no	no	no
01:41:01.98	1464		29088	low													enable	no	no	no
01:41:02.98	2631	2	29088	low										Normal		Norm	enable	no	no	no
01:41:03.98	3512		29120	low									Left				enable	no	no	no
01:41:04.98	583		29152	low											Normal		enable	no	no	no
01:41:05.98	1464		29152	low													enable	no	no	no
01:41:06.98	2631	3	29184	low										Normal		Norm	enable	no	no	no
01:41:07.98	3512		29216	low	0.50								Left				enable	no	no	no
01:41:08.98	583		29216	low											Normal		enable	no	no	no
01:41:09.98	1464		29248	low													enable	no	no	no
01:41:10.98	2631	4	29248	low										Normal		Norm	enable	no	no	no
01:41:11.98	3512		29280	low									Left				enable	no	no	no
01:41:12.98	583		29312	low											Normal		enable	no	no	no
01:41:13.98	1464		29312	low													enable	no	no	no
01:41:14.98	2631	5	29344	low										Normal		Norm	enable	no	no	no
01:41:15.98	3512		29376	low									Left				enable	no	no	no
01:41:16.98	583		29376	low			0.00								Normal		enable	no	no	no
01:41:17.98	1464		29408	low													enable	no	no	no
01:41:18.98	2631	6	29408	low										Normal		Norm	enable	no	no	no
01:41:19.98	3512		29440	low									Left				enable	no	no	no
01:41:20.98	583		29472	low											Normal		enable	no	no	no
01:41:21.98	1464		29472	low													enable	no	no	no
01:41:22.98	2631	7	29504	low										Normal		Norm	enable	no	no	no
01:41:23.98	3512		29536	low													enable	no	no	no
01:41:24.98	583		29536	low								0.00	Left				enable	no	no	no
01:41:25.98	1464		29568	low													enable	no	no	no
01:41:26.98	2631	8	29568	low										Normal		Norm	enable	no	no	no
01:41:27.98	3512		29600	low									Left				enable	no	no	no
01:41:28.98	583		29632	low											Normal		enable	no	no	no
01:41:29.98	1464		29632	low													enable	no	no	no
01:41:30.98	2631	9	29664	low										Normal		Norm	enable	no	no	no
01:41:31.98	3512		29696	low								0.00	Left				enable	no	no	no
01:41:32.98	583		29696	low													enable	no	no	no
01:41:33.98	1464		29728	low													enable	no	no	no
01:41:34.98	2631	10	29760	low										Normal		Norm	enable	no	no	no
01:41:35.98	3512		29760	low									Left				enable	no	no	no
01:41:36.98	583		29792	low													enable	no	no	no
01:41:37.98	1464		29824	low											Normal		enable	no	no	no
01:41:38.98	2631	11	29824	low													enable	no	no	no
01:41:39.98	3512		29856	low									Left				enable	no	no	no
01:41:40.98	583		29888	low													enable	no	no	no
01:41:41.98	1464		29888	low											Normal		enable	no	no	no
01:41:42.98	2631	12	29920	low										Normal		Norm	enable	no	no	no
01:41:43.98	3512		29952	low									Left				enable	no	no	no
01:41:44.98	583		29952	low													enable	no	no	no
01:41:45.98	1464		29984	low											Normal		enable	no	no	no
01:41:46.98	2631	13	30016	low										Normal		Norm	enable	no	no	no
01:41:47.98	3512		30048	low									Left				enable	no	no	no
01:41:48.98	583		30048	low													enable	no	no	no
01:41:49.98	1464		30080	low											Normal		enable	no	no	no
01:41:50.98	2631	14	30080	low										Normal		Norm	enable	no	no	no
01:41:51.98	3512		30112	low									Left				enable	no	no	no
01:41:52.98	583		30144	low													enable	no	no	no
01:41:53.98	1464		30144	low													enable	no	no	no
01:41:54.98	2631	15	30176	low													enable	no	no	no
01:41:55.98	3512		30208	low									Left				enable	no	no	no
01:41:56.98	583		30208	low													enable	no	no	no
01:41:57.98	1464		30240	low											Normal		enable	no	no	no
01:41:58.98	2631	0	30272	low													enable	no	no	no
01:41:59.98	3512		30272	low									Left				enable	no	no	no

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Radar Local Time	Sync Codes	Superframe Counter	Pressure Altitude (ft)	Vibration Select SW	Eng Vib Left	Eng Vib Right	Eng Vib Filter 1 Fan Left	Eng Vib Filter 1 Fan Right	Eng Vib Filter 2 LPT Left	Eng Vib Filter 2 LPT Right	Eng Vib Filter 3 N2 Left	Eng Vib Filter 3 N2 Right	EICAS SW SEL	EFIS SEL SW CAPT	FMS CAPT SW	APU Fire	PVD Enable	Inner Marker	Middle Marker	Outer Marker
(EST)																				
01:42:00.98	583		30304	low											Normal		enable	no	no	no
01:42:01.98	1464		30336	low												Norm	enable	no	no	no
01:42:02.98	2631	1	30336	low													enable	no	no	no
01:42:03.98	3512		30368	low									Left	Normal			enable	no	no	no
01:42:04.98	583		30400	low											Normal		enable	no	no	no
01:42:05.98	1464		30400	low												Norm	enable	no	no	no
01:42:06.98	2631	2	30432	low													enable	no	no	no
01:42:07.98	3512		30464	low									Left	Normal			enable	no	no	no
01:42:08.98	583		30464	low											Normal		enable	no	no	no
01:42:09.98	1464		30496	low												Norm	enable	no	no	no
01:42:10.98	2631	3	30528	low	0.44								Left	Normal			enable	no	no	no
01:42:11.98	3512		30528	low													enable	no	no	no
01:42:12.98	583		30560	low											Normal		enable	no	no	no
01:42:13.98	1464		30560	low												Norm	enable	no	no	no
01:42:14.98	2631	4	30592	low													enable	no	no	no
01:42:15.98	3512		30592	low		0.25							Left	Normal			enable	no	no	no
01:42:16.98	583		30624	low											Normal		enable	no	no	no
01:42:17.98	1464		30656	low												Norm	enable	no	no	no
01:42:18.98	2631	5	30656	low													enable	no	no	no
01:42:19.98	3512		30688	low													enable	no	no	no
01:42:20.98	583		30720	low									Left	Normal			enable	no	no	no
01:42:21.98	1464		30720	low												Norm	enable	no	no	no
01:42:22.98	2631	6	30752	low													enable	no	no	no
01:42:23.98	3512		30784	low									Left	Normal			enable	no	no	no
01:42:24.98	583		30784	low											Normal		enable	no	no	no
01:42:25.98	1464		30816	low												Norm	enable	no	no	no
01:42:26.98	2631	7	30816	low													enable	no	no	no
01:42:27.98	3512		30848	low													enable	no	no	no
01:42:28.98	583		30880	low							0.00		Left	Normal			enable	no	no	no
01:42:29.98	1464		30880	low												Norm	enable	no	no	no
01:42:30.98	2631	8	30912	low													enable	no	no	no
01:42:31.98	3512		30944	low									Left	Normal			enable	no	no	no
01:42:32.98	583		30944	low											Normal		enable	no	no	no
01:42:33.98	1464		30976	low												Norm	enable	no	no	no
01:42:34.98	2631	9	31008	low													enable	no	no	no
01:42:35.98	3512		31008	low													enable	no	no	no
01:42:36.98	583		31040	low									Left	Normal			enable	no	no	no
01:42:37.98	1464		31040	low												Norm	enable	no	no	no
01:42:38.98	2631	10	31072	low													enable	no	no	no
01:42:39.98	3512		31104	low									Left	Normal			enable	no	no	no
01:42:40.98	583		31104	low											Normal		enable	no	no	no
01:42:41.98	1464		31136	low												Norm	enable	no	no	no
01:42:42.98	2631	11	31168	low													enable	no	no	no
01:42:43.98	3512		31168	low									Left	Normal			enable	no	no	no
01:42:44.98	583		31200	low												Norm	enable	no	no	no
01:42:45.98	1464		31232	low												Norm	enable	no	no	no
01:42:46.98	2631	12	31232	low													enable	no	no	no
01:42:47.98	3512		31264	low									Left	Normal			enable	no	no	no
01:42:48.98	583		31264	low											Normal		enable	no	no	no
01:42:49.98	1464		31296	low												Norm	enable	no	no	no
01:42:50.98	2631	13	31328	low													enable	no	no	no
01:42:51.98	3512		31328	low									Left	Normal			enable	no	no	no
01:42:52.98	583		31360	low												Norm	enable	no	no	no
01:42:53.98	1464		31392	low												Norm	enable	no	no	no
01:42:54.98	2631	14	31392	low													enable	no	no	no
01:42:55.98	3512		31424	low									Left	Normal			enable	no	no	no
01:42:56.98	583		31456	low												Norm	enable	no	no	no
01:42:57.98	1464		31456	low												Norm	enable	no	no	no
01:42:58.98	2631	15	31488	low													enable	no	no	no
01:42:59.98	3512		31520	low									Left	Normal			enable	no	no	no
01:43:00.98	583		31520	low												Norm	enable	no	no	no
01:43:01.98	1464		31552	low												Norm	enable	no	no	no
01:43:02.98	2631	0	31584	low													enable	no	no	no
01:43:03.98	3512		31584	low									Left	Normal			enable	no	no	no
01:43:04.98	583		31616	low											Normal		enable	no	no	no
01:43:05.98	1464		31648	low												Norm	enable	no	no	no
01:43:06.98	2631	1	31648	low													enable	no	no	no
01:43:07.98	3512		31680	low									Left	Normal			enable	no	no	no
01:43:08.98	583		31712	low												Norm	enable	no	no	no
01:43:09.98	1464		31712	low												Norm	enable	no	no	no
01:43:10.98	2631	2	31744	low													enable	no	no	no
01:43:11.98	3512		31744	low									Left	Normal			enable	no	no	no
01:43:12.98	583		31776	low											Normal		enable	no	no	no
01:43:13.98	1464		31808	low												Norm	enable	no	no	no
01:43:14.98	2631	3	31808	low													enable	no	no	no
01:43:15.98	3512		31840	low									Left	Normal			enable	no	no	no
01:43:16.98	583		31840	low												Norm	enable	no	no	no
01:43:17.98	1464		31872	low												Norm	enable	no	no	no
01:43:18.98	2631	4	31904	low													enable	no	no	no
01:43:19.98	3512		31904	low		0.23							Left	Normal			enable	no	no	no

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Radar Local Time	Sync Codes	Superframe Counter	Pressure Altitude (ft)	Vibration Select SW	Eng Vib Left	Eng Vib Right	Eng Vib Filter 1 Fan Left	Eng Vib Filter 1 Fan Right	Eng Vib Filter 2 LPT Left	Eng Vib Filter 2 LPT Right	Eng Vib Filter 3 N2 Left	Eng Vib Filter 3 N2 Right	EICAS SW SEL	EFIS SEL SW CAPT	FMS CAPT SW	APU Fire	PVD Enable	Inner Marker	Middle Marker	Outer Marker
01:43:20.98	583		31936	low											Normal		enable	no	no	no
01:43:21.98	1464		31936	low													enable	no	no	no
01:43:22.98	2631	5	31968	low										Normal		Norm	enable	no	no	no
01:43:23.98	3512		32000	low			0.00						Left				enable	no	no	no
01:43:24.98	583		32000	low											Normal		enable	no	no	no
01:43:25.98	1464		32032	low													enable	no	no	no
01:43:26.98	2631	6	32032	low										Normal		Norm	enable	no	no	no
01:43:27.98	3512		32064	low				2.88					Left				enable	no	no	no
01:43:28.98	583		32064	low											Normal		enable	no	no	no
01:43:29.98	1464		32096	low													enable	no	no	no
01:43:30.98	2631	7	32096	low										Normal		Norm	enable	no	no	no
01:43:31.98	3512		32128	low							0.00		Left				enable	no	no	no
01:43:32.98	583		32128	low											Normal		enable	no	no	no
01:43:33.98	1464		32160	low													enable	no	no	no
01:43:34.98	2631	8	32160	low										Normal		Norm	enable	no	no	no
01:43:35.98	3512		32192	low								2.88	Left				enable	no	no	no
01:43:36.98	583		32192	low											Normal		enable	no	no	no
01:43:37.98	1464		32224	low													enable	no	no	no
01:43:38.98	2631	9	32224	low										Normal		Norm	enable	no	no	no
01:43:39.98	3512		32256	low							0.00		Left				enable	no	no	no
01:43:40.98	583		32256	low											Normal		enable	no	no	no
01:43:41.98	1464		32256	low													enable	no	no	no
01:43:42.98	2631	10	32288	low										Normal		Norm	enable	no	no	no
01:43:43.98	3512		32288	low							2.88		Left				enable	no	no	no
01:43:44.98	583		32320	low											Normal		enable	no	no	no
01:43:45.98	1464		32320	low													enable	no	no	no
01:43:46.98	2631	11	32352	low										Normal		Norm	enable	no	no	no
01:43:47.98	3512		32352	low													enable	no	no	no
01:43:48.98	583		32384	low									Left				enable	no	no	no
01:43:49.98	1464		32384	low													enable	no	no	no
01:43:50.98	2631	12	32416	low										Normal		Norm	enable	no	no	no
01:43:51.98	3512		32416	low									Left				enable	no	no	no
01:43:52.98	583		32416	low											Normal		enable	no	no	no
01:43:53.98	1464		32448	low													enable	no	no	no
01:43:54.98	2631	13	32448	low										Normal		Norm	enable	no	no	no
01:43:55.98	3512		32480	low									Left				enable	no	no	no
01:43:56.98	583		32480	low											Normal		enable	no	no	no
01:43:57.98	1464		32512	low													enable	no	no	no
01:43:58.98	2631	14	32512	low										Normal		Norm	enable	no	no	no
01:43:59.98	3512		32544	low									Left				enable	no	no	no
01:44:00.98	583		32544	low											Normal		enable	no	no	no
01:44:01.98	1464		32576	low													enable	no	no	no
01:44:02.98	2631	15	32576	low										Normal		Norm	enable	no	no	no
01:44:03.98	3512		32608	low									Left				enable	no	no	no
01:44:04.98	583		32608	low											Normal		enable	no	no	no
01:44:05.98	1464		32608	low													enable	no	no	no
01:44:06.98	2631	0	32640	low										Normal		Norm	enable	no	no	no
01:44:07.98	3512		32640	low									Left				enable	no	no	no
01:44:08.98	583		32672	low											Normal		enable	no	no	no
01:44:09.98	1464		32672	low													enable	no	no	no
01:44:10.98	2631	1	32704	low									Left				enable	no	no	no
01:44:11.98	3512		32704	low											Normal		enable	no	no	no
01:44:12.98	583		32736	low													enable	no	no	no
01:44:13.98	1464		32736	low													enable	no	no	no
01:44:14.98	2631	2	32768	low										Normal		Norm	enable	no	no	no
01:44:15.98	3512		32768	low									Left				enable	no	no	no
01:44:16.98	583		32800	low											Normal		enable	no	no	no
01:44:17.98	1464		32800	low													enable	no	no	no
01:44:18.98	2631	3	32832	low		0.42								Normal		Norm	enable	no	no	no
01:44:19.98	3512		32832	low									Left				enable	no	no	no
01:44:20.98	583		32832	low													enable	no	no	no
01:44:21.98	1464		32864	low											Normal		enable	no	no	no
01:44:22.98	2631	4	32864	low										Normal		Norm	enable	no	no	no
01:44:23.98	3512		32896	low		0.26							Left				enable	no	no	no
01:44:24.98	583		32896	low											Normal		enable	no	no	no
01:44:25.98	1464		32928	low													enable	no	no	no
01:44:26.98	2631	5	32928	low										Normal		Norm	enable	no	no	no
01:44:27.98	3512		32960	low									Left				enable	no	no	no
01:44:28.98	583		32960	low											Normal		enable	no	no	no
01:44:29.98	1464		32992	low													enable	no	no	no
01:44:30.98	2631	6	32992	low										Normal		Norm	enable	no	no	no
01:44:31.98	3512		32992	low							2.88		Left				enable	no	no	no
01:44:32.98	583		33024	low											Normal		enable	no	no	no
01:44:33.98	1464		33024	low													enable	no	no	no
01:44:34.98	2631	7	33024	low										Normal		Norm	enable	no	no	no
01:44:35.98	3512		33024	low							0.00		Left				enable	no	no	no
01:44:36.98	583		33024	low													enable	no	no	no
01:44:37.98	1464		33024	low											Normal		enable	no	no	no
01:44:38.98	2631	8	33024	low										Normal		Norm	enable	no	no	no
01:44:39.98	3512		33024	low								2.88	Left				enable	no	no	no

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Radar Local Time	Sync Codes	Superframe Counter	Pressure Altitude (ft)	Vibration Select SW	Eng Vib Left	Eng Vib Right	Eng Vib Filter 1 Fan Left	Eng Vib Filter 1 Fan Right	Eng Vib Filter 2 LPT Left	Eng Vib Filter 2 LPT Right	Eng Vib Filter 3 N2 Left	Eng Vib Filter 3 N2 Right	EICAS SW SEL	EFIS SEL SW CAPT	FMS CAPT SW	APU Fire	PVD Enable	Inner Marker	Middle Marker	Outer Marker
01:44:40.98	583		33024	low											Normal		enable	no	no	no
01:44:41.98	1464		33024	low												Norm	enable	no	no	no
01:44:42.98	2631	9	33024	low													enable	no	no	no
01:44:43.98	3512		33024	low					0.00				Left	Normal		Normal	enable	no	no	no
01:44:44.98	583		33024	low													enable	no	no	no
01:44:45.98	1464		33024	low													enable	no	no	no
01:44:46.98	2631	10	33024	low											Normal		Norm	enable	no	no
01:44:47.98	3512		33024	low						2.88			Left				enable	no	no	no
01:44:48.98	583		33024	low												Normal		no	no	no
01:44:49.98	1464		33024	low													enable	no	no	no
01:44:50.98	2631	11	32992	low												Normal	Norm	enable	no	no
01:44:51.98	3512		32992	low									Left	Normal			enable	no	no	no
01:44:52.98	583		32992	low												Normal		enable	no	no
01:44:53.98	1464		32992	low													enable	no	no	no
01:44:54.98	2631	12	32992	low											Normal		Norm	enable	no	no
01:44:55.98	3512		32992	low									Left				enable	no	no	no
01:44:56.98	583		32992	low												Normal		enable	no	no
01:44:57.98	1464		32992	low													enable	no	no	no
01:44:58.98	2631	13	32992	low											Normal		Norm	enable	no	no
01:44:59.98	3512		32992	low									Left	Normal			enable	no	no	no
01:45:00.98	583		32992	low												Normal		enable	no	no
01:45:01.98	1464		32992	low													enable	no	no	no
01:45:02.98	2631	14	32992	low											Normal		Norm	enable	no	no
01:45:03.98	3512		32992	low									Left				enable	no	no	no
01:45:04.98	583		32992	low												Normal		enable	no	no
01:45:05.98	1464		32992	low													enable	no	no	no
01:45:06.98	2631	15	32992	low											Normal		Norm	enable	no	no
01:45:07.98	3512		32992	low													enable	no	no	no
01:45:08.98	583		32992	low									Left			Normal		enable	no	no
01:45:09.98	1464		32992	low													enable	no	no	no
01:45:10.98	2631	0	32992	low											Normal		Norm	enable	no	no
01:45:11.98	3512		32992	low									Left				enable	no	no	no
01:45:12.98	583		32992	low												Normal		enable	no	no
01:45:13.98	1464		32992	low													enable	no	no	no
01:45:14.98	2631	1	32992	low											Normal		Norm	enable	no	no
01:45:15.98	3512		32992	low									Left				enable	no	no	no
01:45:16.98	583		32992	low												Normal		enable	no	no
01:45:17.98	1464		32992	low													enable	no	no	no
01:45:18.98	2631	2	32992	low											Normal		Norm	enable	no	no
01:45:19.98	3512		32992	low									Left				enable	no	no	no
01:45:20.98	583		32992	low												Normal		enable	no	no
01:45:21.98	1464		32992	low													enable	no	no	no
01:45:22.98	2631	3	32992	low											Normal		Norm	enable	no	no
01:45:23.98	3512		32992	low		0.36							Left				enable	no	no	no
01:45:24.98	583		32992	low												Normal		enable	no	no
01:45:25.98	1464		32992	low													enable	no	no	no
01:45:26.98	2631	4	32992	low											Normal		Norm	enable	no	no
01:45:27.98	3512		32992	low									Left				enable	no	no	no
01:45:28.98	583		32992	low												Normal		enable	no	no
01:45:29.98	1464		32992	low													enable	no	no	no
01:45:30.98	2631	5	32992	low											Normal		Norm	enable	no	no
01:45:31.98	3512		32992	low					0.00				Left				enable	no	no	no
01:45:32.98	583		32992	low												Normal		enable	no	no
01:45:33.98	1464		32992	low													enable	no	no	no
01:45:34.98	2631	6	32992	low											Normal		Norm	enable	no	no
01:45:35.98	3512		32992	low						2.88			Left				enable	no	no	no
01:45:36.98	583		32992	low												Normal		enable	no	no
01:45:37.98	1464		32992	low													enable	no	no	no
01:45:38.98	2631		32992	low													enable	no	no	no
01:45:39.98	3512	7	32992	low												Normal		enable	no	no
01:45:40.98	583		32992	low								0.00	Left				enable	no	no	no
01:45:41.98	1464		32992	low													enable	no	no	no
01:45:42.98	2631	8	32992	low											Normal		Norm	enable	no	no
01:45:43.98	3512		32992	low									2.88	Left			enable	no	no	no
01:45:44.98	583		32992	low												Normal		enable	no	no
01:45:45.98	1464		32992	low													enable	no	no	no
01:45:46.98	2631	9	32992	low											Normal		Norm	enable	no	no
01:45:47.98	3512		32992	low					0.00				Left				enable	no	no	no
01:45:48.98	583		32992	low												Normal		enable	no	no
01:45:49.98	1464		32992	low													enable	no	no	no
01:45:50.98	2631	10	32992	low											Normal		Norm	enable	no	no
01:45:51.98	3512		32992	low						2.88			Left				enable	no	no	no
01:45:52.98	583		32992	low												Normal		enable	no	no
01:45:53.98	1464		32992	low													enable	no	no	no
01:45:54.98	2631		32992	low													enable	no	no	no
01:45:55.98	3512	11	32992	low											Normal		enable	no	no	no
01:45:56.98	583		32992	low												Normal		enable	no	no
01:45:57.98	1464		32992	low													enable	no	no	no
01:45:58.98	2631	12	32992	low											Normal		Norm	enable	no	no
01:45:59.98	3512		32992	low									Left				enable	no	no	no

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Radar Local Time	Sync Codes	Superframe Counter	Pressure Altitude (ft)	Vibration Select SW	Eng Vib Left	Eng Vib Right	Eng Vib Filter 1 Fan Left	Eng Vib Filter 1 Fan Right	Eng Vib Filter 2 LPT Left	Eng Vib Filter 2 LPT Right	Eng Vib Filter 3 N2 Left	Eng Vib Filter 3 N2 Right	EICAS SW SEL	EFIS SEL SW CAPT	FMS CAPT SW	APU Fire	PVD Enable	Inner Marker	Middle Marker	Outer Marker
(EST)																				
01:46:00.98	583		32992	low											Normal		enable	no	no	no
01:46:01.98	1464		32992	low													enable	no	no	no
01:46:02.98	2631	13	32992	low												Norm	enable	no	no	no
01:46:03.98	3512		32992	low										Left	Normal		enable	no	no	no
01:46:04.98	583		32992	low												Normal	enable	no	no	no
01:46:05.98	1464		32992	low													enable	no	no	no
01:46:06.98	2631	14	32992	low											Normal		enable	no	no	no
01:46:07.98	3512		32992	low										Left			enable	no	no	no
01:46:08.98	583		32992	low												Normal	enable	no	no	no
01:46:09.98	1464		32992	low													enable	no	no	no
01:46:10.98	2631	15	32992	low												Norm	enable	no	no	no
01:46:11.98	3512		32992	low										Left	Normal		enable	no	no	no
01:46:12.98	583		32992	low												Normal	enable	no	no	no
01:46:13.98	1464		32992	low													enable	no	no	no
01:46:14.98	2631	0	32992	low											Normal		enable	no	no	no
01:46:15.98	3512		32992	low										Left			enable	no	no	no
01:46:16.98	583		32992	low												Normal	enable	no	no	no
01:46:17.98	1464		32992	low													enable	no	no	no
01:46:18.98	2631	1	32992	low												Norm	enable	no	no	no
01:46:19.98	3512		32992	low										Left	Normal		enable	no	no	no
01:46:20.98	583		32992	low												Normal	enable	no	no	no
01:46:21.98	1464		32992	low													enable	no	no	no
01:46:22.98	2631	2	32992	low											Normal		enable	no	no	no
01:46:23.98	3512		32992	low										Left			enable	no	no	no
01:46:24.98	583		32992	low												Normal	enable	no	no	no
01:46:25.98	1464		32992	low													enable	no	no	no
01:46:26.98	2631	3	32992	low												Norm	enable	no	no	no
01:46:27.98	3512		32992	low		0.38								Left	Normal		enable	no	no	no
01:46:28.98	583		32992	low												Normal	enable	no	no	no
01:46:29.98	1464		32992	low													enable	no	no	no
01:46:30.98	2631	4	32992	low											Normal		enable	no	no	no
01:46:31.98	3512		32992	low										Left			enable	no	no	no
01:46:32.98	583		32992	low												Normal	enable	no	no	no
01:46:33.98	1464		32992	low													enable	no	no	no
01:46:34.98	2631	5	32992	low												Norm	enable	no	no	no
01:46:35.98	3512		32992	low													enable	no	no	no
01:46:36.98	583		32992	low										Left	Normal		enable	no	no	no
01:46:37.98	1464		32992	low													enable	no	no	no
01:46:38.98	2631	6	32992	low											Normal		enable	no	no	no
01:46:39.98	3512		32992	low													enable	no	no	no
01:46:40.98	583		32992	low										Left			enable	no	no	no
01:46:41.98	1464		32992	low												Normal	enable	no	no	no
01:46:42.98	2631	7	32992	low													enable	no	no	no
01:46:43.98	3512		32992	low													enable	no	no	no
01:46:44.98	583		32992	low													enable	no	no	no
01:46:45.98	1464		32992	low													enable	no	no	no
01:46:46.98	2631	8	32992	low												Norm	enable	no	no	no
01:46:47.98	3512		32992	low													enable	no	no	no
01:46:48.98	583		32992	low													enable	no	no	no
01:46:49.98	1464		32992	low													enable	no	no	no
01:46:50.98	2631	9	32992	low												Norm	enable	no	no	no
01:46:51.98	3512		32992	low							0.00						enable	no	no	no
01:46:52.98	583		32992	low													enable	no	no	no
01:46:53.98	1464		32992	low													enable	no	no	no
01:46:54.98	2631	10	32992	low													enable	no	no	no
01:46:55.98	3512		32992	low													enable	no	no	no
01:46:56.98	583		32992	low													enable	no	no	no
01:46:57.98	1464		32992	low													enable	no	no	no
01:46:58.98	2631	11	32992	low													enable	no	no	no
01:46:59.98	3512		32992	low													enable	no	no	no
01:47:00.98	583		32992	low													enable	no	no	no
01:47:01.98	1464		32992	low													enable	no	no	no
01:47:02.98	2631	12	32992	low												Norm	enable	no	no	no
01:47:03.98	3512		32992	low													enable	no	no	no
01:47:04.98	583		32992	low													enable	no	no	no
01:47:05.98	1464		32992	low													enable	no	no	no
01:47:06.98	2631	13	32992	low													enable	no	no	no
01:47:07.98	3512		32992	low													enable	no	no	no
01:47:08.98	583		32992	low													enable	no	no	no
01:47:09.98	1464		32992	low													enable	no	no	no
01:47:10.98	2631	14	32992	low												Norm	enable	no	no	no
01:47:11.98	3512		32992	low										Left	Normal		enable	no	no	no
01:47:12.98	583		32992	low													enable	no	no	no
01:47:13.98	1464		32992	low													enable	no	no	no
01:47:14.98	2631	15	32992	low													enable	no	no	no
01:47:15.98	3512		32992	low													enable	no	no	no
01:47:16.98	583		32992	low													enable	no	no	no
01:47:17.98	1464		32992	low													enable	no	no	no
01:47:18.98	2631	0	32992	low													enable	no	no	no
01:47:19.98	3512		32992	low										Left	Normal		enable	no	no	no

Egypt Air Flight 990, Boeing 767-300ER, SU-GAP, October 31, 1999
 Finalized Data - Engine Vibration Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
 Date Printed: May 11, 2000

Radar Local Time	Sync Codes	Superframe Counter	Pressure Altitude (ft)	Vibration Select SW	Eng Vib Left	Eng Vib Right	Eng Vib Filter 1 Fan Left	Eng Vib Filter 1 Fan Right	Eng Vib Filter 2 LPT Left	Eng Vib Filter 2 LPT Right	Eng Vib Filter 3 N2 Left	Eng Vib Filter 3 N2 Right	EICAS SW SEL	EFIS SEL SW CAPT	FMS CAPT SW	APU Fire	PVD Enable	Inner Marker	Middle Marker	Outer Marker
01:47:20.98	583		32992	low											Normal		enable	no	no	no
01:47:21.98	1464		32992	low													enable	no	no	no
01:47:22.98	2631	1	32992	low													enable	no	no	no
01:47:23.98	3512		32992	low													enable	no	no	no
01:47:24.98	583		32992	low									Left	Normal			enable	no	no	no
01:47:25.98	1464		32992	low													enable	no	no	no
01:47:26.98	2631	2	32992	low										Normal		Norm	enable	no	no	no
01:47:27.98	3512		32992	low									Left				enable	no	no	no
01:47:28.98	583		32992	low													enable	no	no	no
01:47:29.98	1464		32992	low													enable	no	no	no
01:47:30.98	2631	3	32992	low	0.44									Normal		Norm	enable	no	no	no
01:47:31.98	3512		32992	low									Left				enable	no	no	no
01:47:32.98	583		32992	low													enable	no	no	no
01:47:33.98	1464		32992	low													enable	no	no	no
01:47:34.98	2631	4	32992	low										Normal		Norm	enable	no	no	no
01:47:35.98	3512		32992	low		0.41							Left				enable	no	no	no
01:47:36.98	583		32992	low													enable	no	no	no
01:47:37.98	1464		32992	low													enable	no	no	no
01:47:38.98	2631		32992	low													enable	no	no	no
01:47:39.98	3512		32992	low													enable	no	no	no
01:47:40.98	583		32992	low													enable	no	no	no
01:47:41.98	1464		32992	low													enable	no	no	no
01:47:42.98	2631	6	32992	low										Normal		Norm	enable	no	no	no
01:47:43.98	3512		32992	low													enable	no	no	no
01:47:44.98	583		32992	low													enable	no	no	no
01:47:45.98	1464		32992	low													enable	no	no	no
01:47:46.98	2631		32992	low													enable	no	no	no
01:47:47.98	3512		32992	low													enable	no	no	no
01:47:48.98	583		32992	low							0.00			Left			enable	no	no	no
01:47:49.98	1464		32992	low													enable	no	no	no
01:47:50.98	2631		32992	low													enable	no	no	no
01:47:51.98	3512		32992	low													enable	no	no	no
01:47:52.98	583		32992	low													enable	no	no	no
01:47:53.98	1464		32992	low													enable	no	no	no
01:47:54.98	2631		32992	low													enable	no	no	no
01:47:55.98	3512		32992	low													enable	no	no	no
01:47:56.98	583		32992	low													enable	no	no	no
01:47:57.98	1464		32992	low													enable	no	no	no
01:47:58.98	2631	10	32992	low													enable	no	no	no
01:47:59.98	3512		32992	low													enable	no	no	no
01:48:00.98	583		32992	low													enable	no	no	no
01:48:01.98	1464		32992	low													enable	no	no	no
01:48:02.98	2631		32992	low													enable	no	no	no
01:48:03.98	3512		32992	low													enable	no	no	no
01:48:04.98	583		32992	low													enable	no	no	no
01:48:05.98	1464		32992	low													enable	no	no	no
01:48:06.98	2631		32992	low													enable	no	no	no
01:48:07.98	3512		32992	low													enable	no	no	no
01:48:08.98	583		32992	low													enable	no	no	no
01:48:09.98	1464		32992	low													enable	no	no	no
01:48:10.98	2631	13	32992	low													enable	no	no	no
01:48:11.98	3512		32992	low													enable	no	no	no
01:48:12.98	583		32992	low													enable	no	no	no
01:48:13.98	1464		32992	low													enable	no	no	no
01:48:14.98	2631		32992	low													enable	no	no	no
01:48:15.98	3512		32992	low													enable	no	no	no
01:48:16.98	583		32992	low													enable	no	no	no
01:48:17.98	1464		32992	low													enable	no	no	no
01:48:18.98	2631		32992	low													enable	no	no	no
01:48:19.98	3512		32992	low													enable	no	no	no
01:48:20.98	583		32992	low													enable	no	no	no
01:48:21.98	1464		32992	low													enable	no	no	no
01:48:22.98	2631	0	32960	low													enable	no	no	no
01:48:23.98	3512		32992	low													enable	no	no	no
01:48:24.98	583		32992	low													enable	no	no	no
01:48:25.98	1464		32992	low													enable	no	no	no
01:48:26.98	2631		32992	low													enable	no	no	no
01:48:27.98	3512		32992	low													enable	no	no	no
01:48:28.98	583		32992	low													enable	no	no	no
01:48:29.98	1464		32992	low													enable	no	no	no
01:48:30.98	2631	2	32992	low													enable	no	no	no
01:48:31.98	3512		32992	low													enable	no	no	no
01:48:32.98	583		32992	low													enable	no	no	no
01:48:33.98	1464		32992	low													enable	no	no	no
01:48:34.98	2631		32992	low													enable	no	no	no
01:48:35.98	3512		32992	low													enable	no	no	no
01:48:36.98	583		32992	low													enable	no	no	no
01:48:37.98	1464		32992	low													enable	no	no	no
01:48:38.98	2631		32992	low													enable	no	no	no
01:48:39.98	3512		32992	low													enable	no	no	no

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 Finalized Data - Engine Vibration Parameters, DCA00MA006, Vehicle Recorder Division RE-40 - NTSB
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Radar Local Time	Sync Codes	Superframe Counter	Pressure Altitude (ft)	Vibration Select SW	Eng Vib Left	Eng Vib Right	Eng Vib Filter 1 Fan Left	Eng Vib Filter 1 Fan Right	Eng Vib Filter 2 LPT Left	Eng Vib Filter 2 LPT Right	Eng Vib Filter 3 N2 Left	Eng Vib Filter 3 N2 Right	EICAS SW SEL	EFIS SEL SW CAPT	FMS CAPT SW	APU Fire	PVD Enable	Inner Marker	Middle Marker	Outer Marker
01:48:40.98	583		32992	low											Normal		enable	no	no	no
01:48:41.98	1464	5	32992	low												Norm	enable	no	no	no
01:48:42.98	2631		32992	low													enable	no	no	no
01:48:43.98	3512		32992	low			0.00						Left	Normal			enable	no	no	no
01:48:44.98	583		32992	low											Normal		enable	no	no	no
01:48:45.98	1464	6	32992	low												Norm	enable	no	no	no
01:48:46.98	2631		32992	low													enable	no	no	no
01:48:47.98	3512		32992	low					2.88				Left	Normal			enable	no	no	no
01:48:48.98	583		32992	low											Normal		enable	no	no	no
01:48:49.98	1464	7	32992	low												Norm	enable	no	no	no
01:48:50.98	2631		32992	low													enable	no	no	no
01:48:51.98	3512		32992	low							0.00		Left	Normal			enable	no	no	no
01:48:52.98	583		32992	low											Normal		enable	no	no	no
01:48:53.98	1464	8	32992	low												Norm	enable	no	no	no
01:48:54.98	2631		32992	low													enable	no	no	no
01:48:55.98	3512		32992	low								2.88	Left	Normal			enable	no	no	no
01:48:56.98	583		32992	low											Normal		enable	no	no	no
01:48:57.98	1464	9	32992	low												Norm	enable	no	no	no
01:48:58.98	2631		32992	low													enable	no	no	no
01:48:59.98	3512		32992	low					0.00				Left	Normal			enable	no	no	no
01:49:00.98	583		32992	low											Normal		enable	no	no	no
01:49:01.98	1464	10	32992	low												Norm	enable	no	no	no
01:49:02.98	2631		32992	low													enable	no	no	no
01:49:03.98	3512		32992	low						2.88			Left	Normal			enable	no	no	no
01:49:04.98	583		32992	low											Normal		enable	no	no	no
01:49:05.98	1464	11	32992	low												Norm	enable	no	no	no
01:49:06.98	2631		32992	low													enable	no	no	no
01:49:07.98	3512		32992	low													enable	no	no	no
01:49:08.98	583		32992	low											Normal		enable	no	no	no
01:49:09.98	1464	12	32992	low												Norm	enable	no	no	no
01:49:10.98	2631		32992	low													enable	no	no	no
01:49:11.98	3512		32992	low											Left	Normal	enable	no	no	no
01:49:12.98	583		32992	low											Normal		enable	no	no	no
01:49:13.98	1464	13	32992	low												Norm	enable	no	no	no
01:49:14.98	2631		32992	low													enable	no	no	no
01:49:15.98	3512		32992	low													enable	no	no	no
01:49:16.98	583		32992	low											Normal		enable	no	no	no
01:49:17.98	1464	14	32992	low												Norm	enable	no	no	no
01:49:18.98	2631		32992	low													enable	no	no	no
01:49:19.98	3512		32992	low											Left	Normal	enable	no	no	no
01:49:20.98	583		32992	low											Normal		enable	no	no	no
01:49:21.98	1464	15	32992	low												Norm	enable	no	no	no
01:49:22.98	2631		32992	low													enable	no	no	no
01:49:23.98	3512		32992	low													enable	no	no	no
01:49:24.98	583		32992	low											Normal		enable	no	no	no
01:49:25.98	1464	0	32992	low												Norm	enable	no	no	no
01:49:26.98	2631		32992	low													enable	no	no	no
01:49:27.98	3512		32992	low											Left	Normal	enable	no	no	no
01:49:28.98	583		32992	low											Normal		enable	no	no	no
01:49:29.98	1464	1	32992	low												Norm	enable	no	no	no
01:49:30.98	2631		32992	low													enable	no	no	no
01:49:31.98	3512		32992	low													enable	no	no	no
01:49:32.98	583		32992	low											Normal		enable	no	no	no
01:49:33.98	1464	2	32992	low												Norm	not enable	no	no	no
01:49:34.98	2631		32992	low													enable	no	no	no
01:49:35.98	3512		32992	low											Left	Normal	enable	no	no	no
01:49:36.98	583		32992	low											Normal		enable	no	no	no
01:49:37.98	1464	3	32992	low												Norm	enable	no	no	no
01:49:38.98	2631		32992	low													enable	no	no	no
01:49:39.98	3512		32992	low													enable	no	no	no
01:49:40.98	583		32992	low		0.51											enable	no	no	no
01:49:41.98	1464	4	32992	low												Norm	enable	no	no	no
01:49:42.98	2631		32992	low													enable	no	no	no
01:49:43.98	3512		32992	low											Left	Normal	enable	no	no	no
01:49:44.98	583		32992	low											Normal		enable	no	no	no
01:49:45.98	1464	5	32992	low												Norm	enable	no	no	no
01:49:46.98	2631		32992	low													enable	no	no	no
01:49:47.98	3512		32992	low													enable	no	no	no
01:49:48.98	583		32992	low											Normal		enable	no	no	no
01:49:49.98	1464	6	32992	low												Norm	enable	no	no	no
01:49:50.98	2631		32960	low													enable	no	no	no
01:49:51.98	3512		32960	low							2.88		Left	Normal			enable	no	no	no
01:49:52.98	583		32928	low											Normal		enable	no	no	no
01:49:53.98	1464	7	32928	low												Norm	enable	no	no	no
01:49:54.98	2631		32864	low													enable	no	no	no
01:49:55.98	3512		32832	low								0.00		Left	Normal		enable	no	no	no
01:49:56.98	583		32768	low													enable	no	no	no
01:49:57.98	1464		32672	low												Norm	enable	no	no	no
01:49:58.98	2631	8	32544	low													enable	no	no	no
01:49:59.98	3512		32384	low													enable	no	no	no

